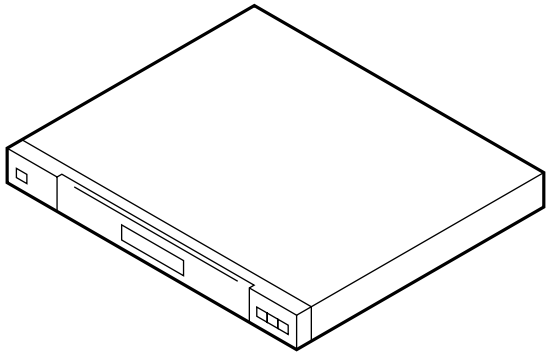
DSC-1024HD

SERVICE MANUAL

US Model
Canadian Model
AEP Model

Chassis No. SCC-J91B-A



SPECIFICATIONS

Signal input

VIDEO 1 IN	Composite video/reference input BNC connector × 2 (loop-through), 75 ohms (automatic termination) NTSC3.58/PAL4.43, 1 Vp-p typical Black burst signal for the gen-lock function*
	S video (Y/C) 4-pin mini DIN connector × 2 (loop-through), 75 ohms (automatic termination) Y: 1 Vp-p typical, sync negative C: 0.286 Vp-p (NTSC)/0.3 Vp-p (PAL) typical
VIDEO 2 IN	RGB/component/composite video D-sub 15-pin, 3-row x 2 (loop-through), 75 ohms/high impedance R/G/B: 0.714 Vp-p H/V or composite sync: 1 to 5 Vp-p Y/B-Y/R-Y: 0.7 Vp-p (NTSC/PAL, sync on Y) Composite video: 1 Vp-p (NTSC3.58/PAL4.43)
VIDEO 3 IN	RGB/component D-sub 15-pin, 3-row connector × 2 (loop-through), 75 ohms/high impedance R/G/B: 0.714 Vp-p (sync on G acceptable) H/V or composite sync: 1 to 5 Vp-p Y/B-Y/R-Y: 0.7 Vp-p typical (NTSC/PAL, sync on Y)
AUDIO IN 1, 2, 3 (L/R)	RCA pin jack, more than 10 kilohms 0 dBs (1 Vrms) max.

Video processing

Capture range	Horizontal rate: 15.6 to 70 kHz, Vertical rate: 50 to 120 Hz
Preset signal	Input: 10 formats Output: 7 formats Gen-lock output: NTSC or PAL (See page 49.)
Video memory	1,152 × 1,152 × 24 bits (RGB total)
Sampling rate	14.3 to 40 MHz offset phase max. (equivalent to 80 MHz sampling)
Output pixel clock	14.3 to 50 MHz max.

General

Power requirements	100 to 120 V AC, 50/60 Hz, 0.4 A 200 to 240 V AC, 50 – 60 Hz, 0.25 A
Power consumption	30 W (max. in operation) 3 W (power off)
Operation temperature	0 to 35°C (32 – 95°F)
Dimensions	424 × 44 × 354 mm (w/h/d) (16 3/4 × 1 3/4 × 14 inches) excluding bracket and legs
Mass	Approx. 4.1 kg (9 lb 1 oz)
Supplied accessories	AC power cord (1) Signal cable (1) Screws for mounting bracket kit MB-510 (4)

Optional accessories

Rack mount bracket MB-510
SMF-400: D-sub 15-pin (male) to 5 BNC cable
SMF-401: D-sub 15-pin (male) to D-sub 15-pin (male) cable
Remote commander RM-854, RM-1271, RM-PJ1292, RM-PJ350

* **Note on the gen-lock function**
The reference signal should comply with SMPTE 170M (NTSC) or ITU-R624 (PAL).

– Continued on next page –

Digital Scan Converter

SONY®

MICROFILM

Signal output

VIDEO OUT — Composite video
- BNC connector, 75 ohms typical
- NTSC3.58/PAL4.43, 1 Vp-p typical

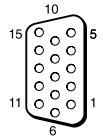
S video (Y/C)
- 4-pin mini DIN connector, 75 ohms typical
- Y: 1 Vp-p typical, sync negative
- C: 0.286 Vp-p (NTSC)/0.3 Vp-p (PAL) typical

RGB/component
- D-sub 15-pin, 3-row connector, 75 ohms typical
- R/G/B: 0.714 Vp-p with external sync
- H/V or composite sync: TTL sync negative
- Y/B-Y/R-Y: 0.7 Vp-p typical (sync on Y)

AUDIO OUT (L/R) — RCA pin jack
- Audio gain: ± 1.0 dB typical
- Total harmonic distortion: less than 1 %, 1 Vrms

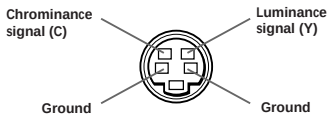
Signal assignment

VIDEO 2 IN connector (D-sub 15-pin, 3-row)
VIDEO 3 IN connector (D-sub 15-pin, 3-row)
VIDEO OUT connector (D-sub 15-pin, 3-row)



Pin No.	Signal
1	Red video or R-Y
2	Green video, Y or composite video*
3	Blue video or B-Y
4	Ground
5	Ground
6	Red ground
7	Green ground
8	Blue ground
9	Not used
10	Ground
11	Ground
12	Not used
13	H sync or composite sync
14	V sync
15	Not used

Y/C IN/OUT connector (4-pin mini DIN)



Preset signals

Indicator		Signal standards		
INPUT	OUTPUT	Name	Scan lines	Line rate/field rate
NTSC	NTSC	NTSC	525 lines total (interlaced)	15.73 kHz/59.94 Hz
PAL	PAL	PAL	625 lines total (interlaced)	15.63 kHz/50.00 Hz
OTHERS	—	HDTV 1920 × 1035 (Japan)	1035 lines active (interlaced)	33.75 kHz/59.94 Hz
31.5k	—	VGA Text	400 lines active (non-interlaced)	31.47 kHz/70.11 Hz
31.5k	31.5k	VGA 640 × 480	480 lines active (non-interlaced)	31.47 kHz/59.94 Hz
OTHERS	—	Mac 13″ mode	480 lines active (non-interlaced)	35.00 kHz/66.67 Hz
37k	37k	VESA 800 × 600	600 lines active (non-interlaced)	37.88 kHz/60.32 Hz
OTHERS	—	Mac 16″ mode	624 lines active (non-interlaced)	49.73 kHz/74.55 Hz
48k	48k	VESA 1024 × 768	768 lines active (non-interlaced)	48.36 kHz/60.00 Hz
64k	64k	VESA 1280 × 1024	1024 lines active (non-interlaced)	63.95 kHz/59.94 Hz
—	1080i	HDTV 1920 × 1080	1080 lines active (interlaced)	33.75 kHz/60 Hz, 59.94 Hz

• H. SYNC and V. SYNC of all the output signals are negative.

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VGA and SVGA are registered trademarks of International Business Machines Corporation.
Mac (Macintosh) is a registered trademark of Apple Computer, Inc.

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

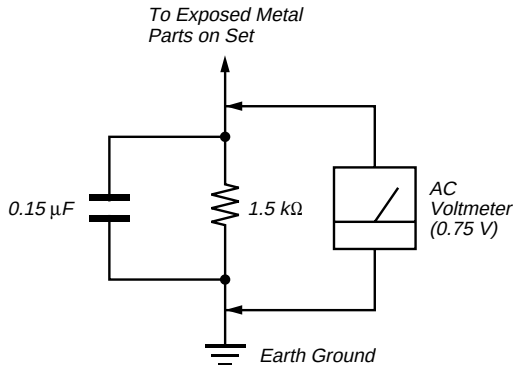

Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

WARNING!!
NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!
NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVÉE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ¡ SONT CRITIQUES POUR LA SÉCURITÉ. NE LES REMPLACER QUE PAR UNE PIÈCE PORTANT LE NUMÉRO SPECIFIÉ. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNE-MENT EST SUSPECTÉ.

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The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

SECTION 1
GENERAL

Generator lock (Gen-lock)

When you use this unit with your video editing system, the output NTSC or PAL signal can be locked to a reference signal (black burst video).

Aspect ratio display

The aspect ratio of the converted picture is displayed on the screen as you zoom the picture or change the picture size.

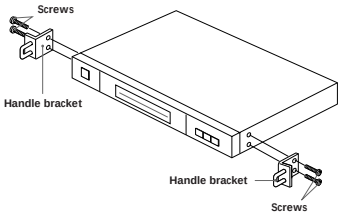
Other features

- Three dimensional comb filter for NTSC Y/C separation
- Line correlation comb filter for PAL Y/C separation
- Up to × 4 zooming
- Accepts infrared or wired Sony remote commanders using SIRCS code
- On-screen display in five languages for user-friendly access
- Built-in test patterns for display alignment
- Three sets of video inputs with audio inputs: one composite video or Y/C input, one composite video or RGB/component input, and one RGB/component input
- Memory function for storage of up to five operation settings
- Automatic input signal detection with indication
- Self-adjusting for uniform output signal
- EIA rack mounting
- Selectable setup level (black reference level) for the output NTSC signal

Rack mounting

You can mount the unit on a 19-inch EIA standard rack using the optional MB-510 mounting bracket kit.

1 Attach the handle brackets with the four screws included with this unit.



2 Remove the four legs from the bottom of the unit.

3 Mount the unit into a 19-inch standard rack.

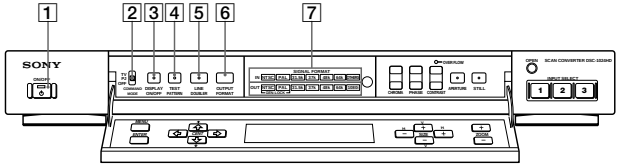
Caution

Do not hold the handle brackets to carry the unit. If you do, the unit may separate from the handle brackets.

English

Location and function of parts and controls

Front panel



1 ON/OFF (power) switch and indicator
Press to turn the unit on and off.
The indicator on the switch lights when the unit is turned on.

2 COMMAND MODE selector
When using the remote commander supplied with the Sony monitor or TV, set it to TV.
When using the remote commander supplied with the Sony projector, set it to PJ.
When not using the remote commander, set to OFF.

3 DISPLAY ON/OFF button and indicator
Press this button to turn on the indicator (DISPLAY ON) to display the current operating mode on the screen.
Press it again to turn off the indicator to eliminate the display (DISPLAY OFF).

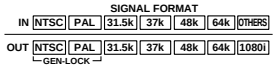
Note
The main menu appears by pressing the MENU button, even if the DISPLAY OFF mode is selected.

4 TEST PATTERN button and indicator
Press this button to turn on the indicator to display the test pattern on the screen.
To turn off the test pattern, press the TEST PATTERN button repeatedly until no test pattern is displayed, or press the ON/OFF, INPUT SELECT or OUTPUT FORMAT button.

5 LINE DOUBLER button and indicator
When the input signal format is NTSC or PAL, press this button to turn on the indicator and activate the line doubler function. Press it again to turn off the indicator and cancel the line doubler function.

6 OUTPUT FORMAT button
Press this button to select the desired output signal format. The selected output signal indicator lights.

7 SIGNAL FORMAT indicators



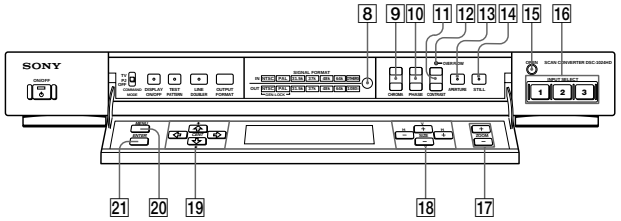
IN indicators (upper)
Shows the input signal format that the unit automatically detected.
31.5k, 37k, 48k and 64k indicate the horizontal scanning frequencies. If the horizontal scanning frequency of the input signal detected is one of these values ±1 kHz, the corresponding indicator lights. If another value is detected, the OTHERS indicator lights.

OUT indicators (lower)
Shows the output signal format selected by the OUTPUT FORMAT button. The output signal format shown by each indicator is as follows:

OUT indicator	Format name
NTSC	NTSC
PAL	PAL
31.5k	VGA 640 × 480
37k	VESA 800 × 600
48k	VESA 1024 × 768
64k	VESA 1280 × 1024
1080i	HDTV 1920 × 1080

For specifications of each format, see “Preset signals” on page 49.

GEN-LOCK indicator
When the output signal format is PAL or NTSC and GEN LOCK is set to ON on the menu screen, the GEN-LOCK indicator lights or flashes.



8 Remote sensor
Receives the beam from the remote commander.

9 CHROMA +/– button
Press to adjust the picture chroma level.

10 PHASE +/– button
Press to adjust the picture phase level.

11 CONTRAST +/– button
Press to adjust the picture contrast.

12 OVERFLOW indicator
This indicator lights when input signal level is excessive.

13 APERTURE button and indicator
Press this button to turn on the indicator to make the picture sharper. Press it again to turn off the indicator for a softer picture.

14 STILL button and indicator
Press this button to turn on the indicator to get a still picture. Press it again to turn off the indicator to resume the normal screen.

15 OPEN button
Press to open the front cover.

16 INPUT SELECT buttons
Press to select the input signal.
1: to select the input source connected to the VIDEO 1 IN (Y/C or COMP) connector and the AUDIO 1 IN connector.
2: to select the input source connected to the VIDEO 2 IN (RGB, YBR* or COMP) connector and the AUDIO 2 IN connector.
3: to select the input source connected to the VIDEO 3 IN (RGB or YBR*) connector and the AUDIO 3 IN connector.

* YBR is an abbreviation of Y/B-Y/R-Y component signal.

17 ZOOM +/– buttons
Press the + button to zoom up, and the – button to zoom down.

18 SIZE V/H +/– buttons
Press to adjust the size of the picture.
V +: to expand the vertical size
V –: to reduce the vertical size
H+: to expand the horizontal size
H–: to reduce the horizontal size

19 CENT◇/◇/◇/◇ buttons/cursor buttons
Press to shift the picture in the direction of the arrow.
The ◇ and ◇ buttons are also used for moving the cursor on the menu screen.

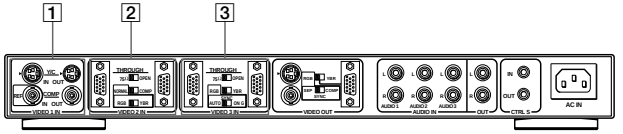
20 MENU button
Press to make the menu appear, or quit the menu.

21 ENTER button
Press to select the desired item in a menu.

English

Location and function of parts and controls (continued)

Rear panel



1 VIDEO 1 IN connector section
Two sets of video inputs and loop-through outputs.

Y/C IN (4-pin):
Connect to the Y/C output of video equipment.
This connector has a priority over the COMP IN connector, if both connectors are used.

COMP IN/REF (BNC type):
Connect to the composite video output of video equipment.
Also, input the reference signal for the gen-lock (black burst signal) to the VIDEO 1 IN REF connector.

Y/C OUT (4-pin):
Loop-through output of the Y/C IN connector.

COMP OUT (BNC type):
Loop-through output of the COMP IN connector.

2 VIDEO 2 IN connector section
A set of composite video or RGB/component (Y/B-Y/R-Y) signal inputs and loop-through outputs.

Composite video/RGB/component input (D-sub 15-pin, 3-row):
Connect one of the D-sub connectors to the composite video, RGB or component (Y/B-Y/R-Y) outputs of video equipment. The other D-sub connector is a loop-through output.

Termination switch:
When nothing is connected to the loop-through output connector, set to 75Ω. When the loop-through output connector is used, set to OPEN.

NORMAL/COMP (composite) input selector:
Usually set to NORMAL when RGB or component signal is input to the D-sub connector. Set to COMP when composite video signal is input.

RGB/YBR* (RGB/component) input selector:
Set to RGB or YBR according to the format of the signal input to the D-sub connector.

3 VIDEO 3 IN connector section
A set of RGB or component (Y/B-Y/R-Y) signal inputs and loop-through outputs.

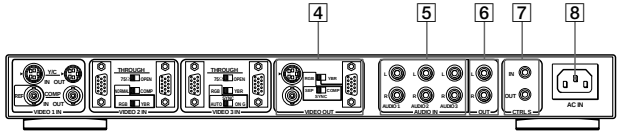
RGB/component input (D-sub 15-pin, 3-row):
Connect one of the D-sub connectors to the RGB or the component (Y/B-Y/R-Y) outputs of video equipment. The other D-sub connector is a loop-through output.

Termination switch:
When nothing is connected to the loop-through output connector, set to 75Ω. When the loop-through output connector is used, set to OPEN.

RGB/YBR* selector:
Set to RGB or YBR according to the format of the signal input to the D-sub connector.

SYNC selector:
Normally set to AUTO. Set to ON G to use the sync signal on green channel when both external sync signal and sync on green signal are input.

* YBR is an abbreviation of Y/B-Y/R-Y component signal.



4 VIDEO OUT connector section
Three sets of video outputs. The converted signal is output from this section.

Y/C output (4-pin):
Connect to the Y/C input of video equipment.
Only the NTSC or PAL signal is output from this connector.

Composite video output (BNC type):
Connect to the composite video input of video equipment.
Only the NTSC or PAL signal is output from this connector.

RGB/component output (D-sub 15-pin, 3-row):
Connect to the RGB or component (Y/B-Y/R-Y) inputs of video equipment.

RGB/YBR output selector:
Set this selector depending on the format of the signal output from the D-sub connector. YBR is effective when the NTSC or PAL signal is output.

SYNC output selector:
Select the sync signal for the RGB output.
Set to SEP to use separate horizontal/vertical sync signal.
Set to COMP to use the composite sync signal.

5 AUDIO IN L/R jacks (RCA pin)
Three sets of audio inputs.
Connect to the audio output jacks of equipment. If the input source is monaural, connect it to the L jack only.
You can select the audio input with the INPUT SELECT buttons on the front panel.

6 AUDIO OUT L/R jacks (RCA pin)
A set of audio outputs.
Connect to the audio input jacks of equipment.

7 CTRL S IN/OUT jacks (minijack)
Connect to the CONTROL S jacks of other Sony equipment.
It is then possible to control the whole system with a single remote commander.
When a plug is connected to the CTRL S IN jack, the remote sensor on the front panel becomes inactive.

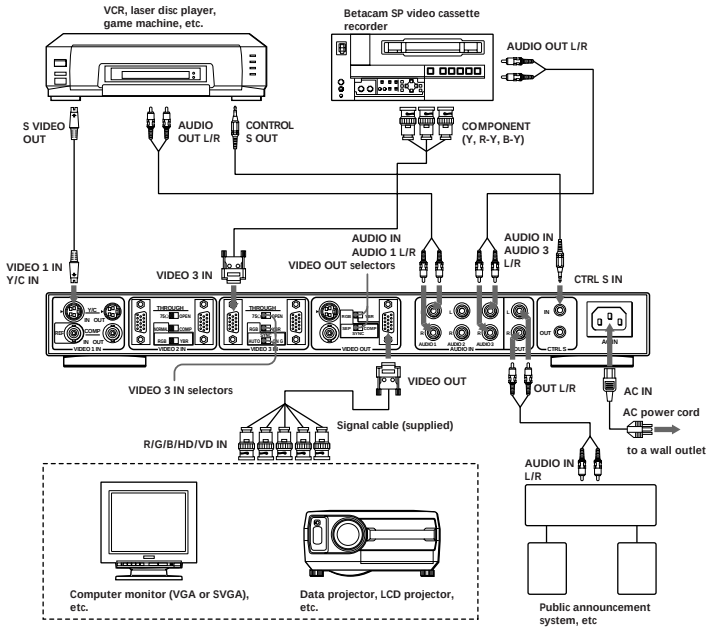
8 AC IN connector
Connect the supplied power cord.

Hookups

Before you get started
- First make sure that the power to each piece of equipment is turned off.
- Use connecting cables suitable for the equipment to be connected.
- The cable connectors should be fully inserted into the jacks. A loose connection may cause hum and other noise.
- To disconnect the cable, pull out by grasping the plug. Never pull the cable itself.
- Read the instruction manual of the equipment to be connected.

Hookup for getting the up-converted signal

The following diagram shows a connection example to convert a low-rate input signal into a high-rate output signal.



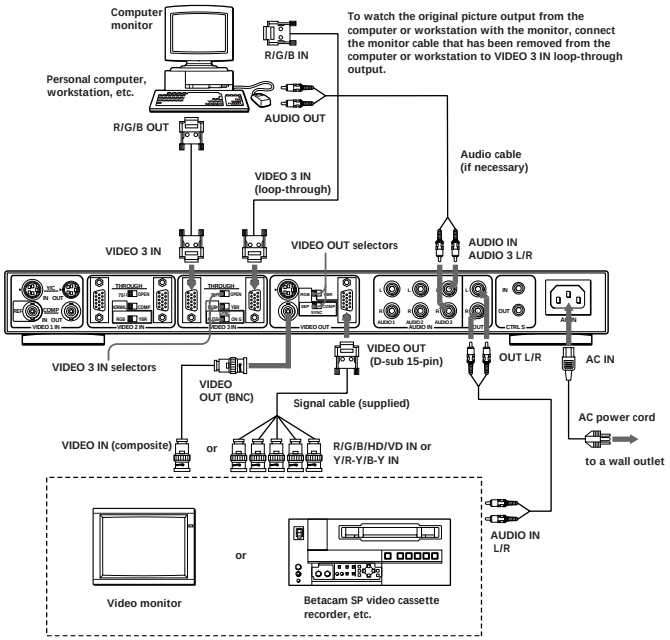
Setting the VIDEO OUT selectors
- Set the RGB/YBR selector to RGB (when a computer monitor, data projector or LCD projector is connected).
- Set the SYNC selector to SEP (HD or VD separate sync) or COMP (composite sync) depending on the connected equipment.

When the Betacam SP video cassette recorder is connected to VIDEO 3 IN
Set the VIDEO 3 IN selectors as follows:
- 75 Ω /OPEN selector → 75 Ω
- RGB/YBR selector → YBR
- SYNC selector → AUTO

Connect only the three plugs of the signal cable to the Betacam SP video cassette recorder: green plug to Y connector, red to R-Y, and blue to B-Y. Leave the other plugs, if provided, disconnected.

Hookup for getting the down-converted signal

The following diagram shows a connection example to convert a high-rate input signal into a low-rate output signal.


Computer monitor
R/G/B IN
To watch the original picture output from the computer or workstation with the monitor, connect the monitor cable that has been removed from the computer or workstation to VIDEO 3 IN loop-through output.
Personal computer, workstation, etc.
AUDIO OUT
R/G/B OUT
Audio cable (if necessary)
VIDEO 3 IN (loop-through)
VIDEO 3 IN
VIDEO OUT selectors
AUDIO IN AUDIO 3 L/R
VIDEO 3 IN selectors
VIDEO OUT (D-sub 15-pin)
OUT L/R
AC IN
VIDEO OUT (BNC)
Signal cable (supplied)
AC power cord
VIDEO IN (composite)
or
R/G/B/HD/VD IN or Y/R-Y/B-Y IN
to a wall outlet
AUDIO IN L/R
or
Video monitor
Betacam SP video cassette recorder, etc.

Setting the VIDEO OUT selectors

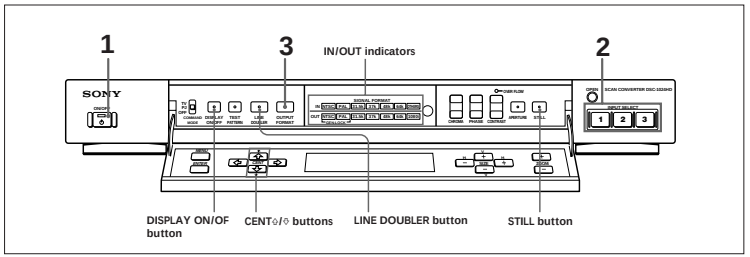
- Set the RGB/YBR selector to RGB when a video monitor or video projector is connected.
  Set it to YBR when a Betacam SP video cassette recorder is connected.
- Set the SYNC selector to SEP (HD or VD separate sync) or COMP (composite sync) depending on the connected equipment.

When the computer monitor is connected to the VIDEO 3 IN loop-through output

Set the VIDEO 3 IN selectors as follows:

- 75 Ω/OPEN selector → OPEN
- RGB/YBR selector → RGB
- SYNC selector → AUTO or ON G depending on the connecting equipment
  For Macintosh and Silicon Graphics Inc. computers, set to ON G.

Watching the converted picture



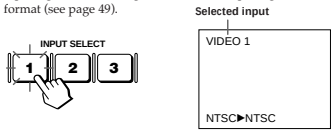
Before you start

- Turn on the connected equipment and play a video source.
- To display the information on the current operation on the screen, make sure the indicator of the DISPLAY ON/OFF button is lit. If not, press the DISPLAY ON/OFF button.
- To set the on-screen language to yours, see page 46.

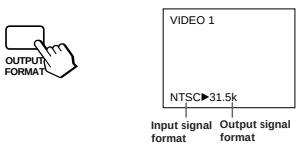
Converting the picture

1 Press the ON/OFF switch.
The indicator of the ON/OFF switch and all the three INPUT SELECT buttons light.

2 Select the input source to be converted by pressing the INPUT SELECT button.
The pressed button lights brighter than the others, and the input signal indicator lights to show the input signal format (see page 49).



3 Select the desired output signal format by pressing the OUTPUT FORMAT button repeatedly.
The selected output signal indicator lights. The output signal is switched a few seconds after you release the button.
For the specification of each output format, see page 49.



Using the line doubler

The line doubler function of this unit converts the input NTSC or PAL signal into a digitally interpolated, high scan-rate output signal. The output signal format becomes a non-interlaced signal whose horizontal frequency is 31.5 kHz and vertical frequency is synchronized to the input signal.
The line doubler up-converts the signal field by field by interpolating information on two line signals vertically. Therefore, a fast moving picture is reproduced as a natural high-resolution picture.

- The converted signal is output from the RGB/component output connector in the RGB format.
- The line doubler can be activated for the three inputs separately.

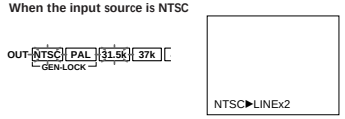
Activating the line doubler

1 Press the OUTPUT FORMAT button to select 31.5k.

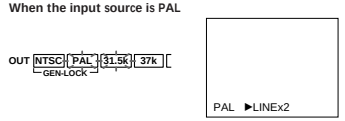
2 Connect a NTSC or PAL signal source and select the input with the INPUT SELECT buttons.

3 Press the LINE DOUBLER button.
The indicator of the button lights, and the NTSC and 31.5k or the PAL and 31.5k OUT indicators light.

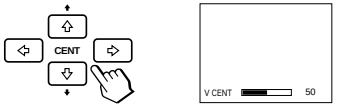
When the input source is NTSC



When the input source is PAL



4 **Adjust the position of the picture by pressing the CENT ✧/✧/✧/✧ buttons.**



To deactivate the line doubler

Press the LINE DOUBLER button again to turn off the indicator of the button. The 31.5k output format is restored.

Notes

- If you press the LINE DOUBLER button when the input source is not NTSC or PAL or the output format is not 31.5k, "NOT APPLICABLE" appears on the screen and the LINE DOUBLER button does not function.
- When the line doubler is activated, the ZOOM, SIZE, APERTURE and TEST PATTERN buttons do not function.
- When the line doubler is activated, the picture size is the same as the original one.
- When you use the line doubler function, we recommend the input source video equipment equipped with the TBC (time base corrector). If you activate the line doubler for the signal without the TBC and display the converted signal with a multi-scan monitor, the picture may disappear due to disturbance of the sync signal.

Watching a still picture

When a moving picture is displayed, press the STILL button to set STILL on the screen to ON. The output signal is displayed as a still picture. The indicator of the STILL button lights.

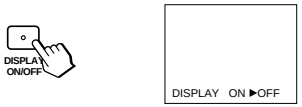
To resume the normal screen, press the STILL button again.

Note

In the still picture mode, only the ON/OFF switch, and the INPUT SELECT, OUTPUT FORMAT, LINE DOUBLER, TEST PATTERN, MENU, ENTER and CENT ✧/✧ buttons will function.
If you press any other button, "NOT APPLICABLE" appears on the screen.

Getting rid of on-screen information

When the indicator of the DISPLAY ON/OFF button is lit, the information on the operation you performed is displayed on the screen for a few seconds.
To get rid of the on-screen display, press the DISPLAY ON/OFF button to set DISPLAY on the screen to OFF.

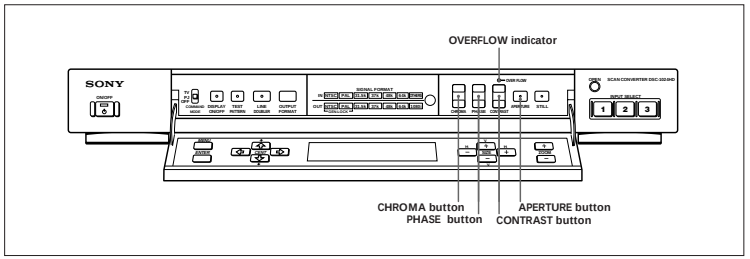


Note

Even if DISPLAY is set to OFF, only the main menu appears when you press the MENU button.

English

Adjusting the picture

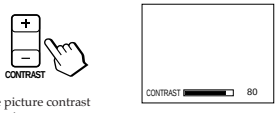


While watching the picture, you can adjust contrast, phase, chroma and aperture to suit your taste. The adjustments can be carried out for the three inputs separately. The adjusted levels are stored in memory.

Adjusting the contrast, phase, and chroma

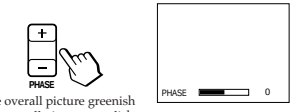
Press the desired adjustment button: CONTRAST, PHASE, or CHROMA.
The adjustment levels are displayed on the screen.

CONTRAST



+: to increase picture contrast
–: to decrease picture contrast

PHASE



+: to make overall picture greenish
–: to make overall picture purplish

CHROMA

+: to increase color intensity
–: to decrease color intensity

Notes

- CHROMA and PHASE controls do not function for the RGB input signal.
- PHASE control does not function for the component (Y/B-Y/R-Y) input signal.
- PHASE control does not function with PAL color source.

If you press these buttons, "NOT APPLICABLE" appears on the screen.

Adjusting the aperture

To make the picture sharper, press the APERTURE button to set APERTURE on the screen to ON. The indicator of the APERTURE button lights.
To make the picture softer, press the APERTURE button again to set APERTURE to OFF.
The factory setting is APERTURE OFF for the NTSC or PAL video input, or APERTURE ON for the other inputs.

Note

When the output signal format is an interlaced signal such as NTSC and PAL, setting APERTURE OFF reduces line flickers although the image contour becomes slightly blurred.

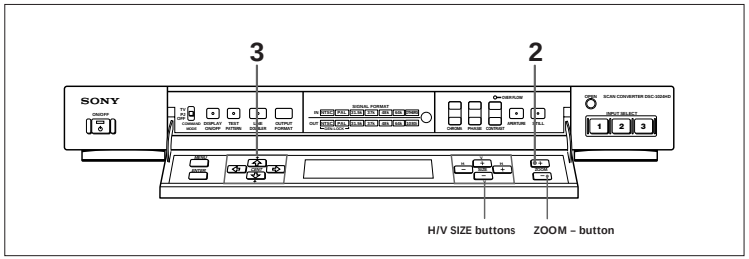
If the input signal level is excessive

The OVERFLOW indicator lights. In this case, check that the 75 Ω /OPEN selector and the RGB/YBR selector in the VIDEO 3 connector section are set correctly. If they are correct, press the CONTRAST – button.

Restoring the factory preset contrast, phase and chroma levels

Use COLOR RESET on the MENU 1 screen. (See page 41.)

Zooming and resizing the picture



You can zoom up the picture making it 2 , 3 or 4 times larger than the original size.
You can also shift the position of the picture so that it fits in the screen, or adjust the vertical and horizontal size of the picture separately.
The adjustments can be carried out for the three inputs separately.

Zooming up the picture

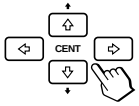
1 Display the picture on the screen.

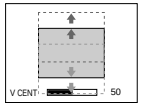
2 Press the ZOOM + button.

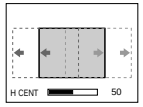
Each time you press the ZOOM + button, the picture is magnified by 2, 3 and 4 times respectively.
To zoom down, press the ZOOM – button.

3 Adjust the position of the close-up picture by pressing the CENT ⇳/⇳/⇳/⇳ buttons.

⇳/⇳: to shift the picture upward/downward (V CENT)
⇳/⇳: to shift the picture to the right/left (H CENT)



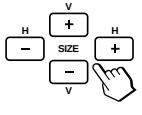


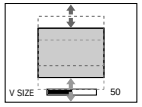


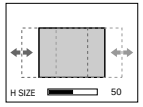
The position of the picture is indicated on the screen by the adjustment bar and value 0 to 100. The factory preset value is 50.

Resizing the picture

Press the H/V SIZE +/– buttons to resize the picture.
V SIZE +: to expand vertical size
V SIZE –: to reduce vertical size
H SIZE +: to expand horizontal size
H SIZE –: to reduce horizontal size



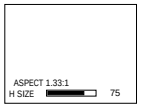




The size of the picture is indicated on the screen by the adjustment bar and value 0 to 100. The factory preset value is 50 (except the HDTV or 64 k input).

Aspect ratio display

As the picture size changes by the H/V SIZE button, the unit calculates the aspect ratio of the converted picture and displays it in decimal values on the screen together with the adjustment bar and value.
Example: 4 : 3 is displayed 1.33 : 1
16 : 9 is displayed 1.78 : 1



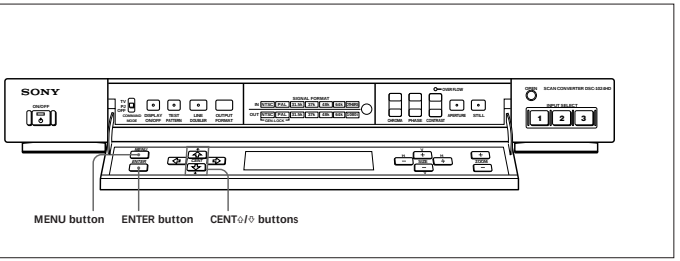
Note

The aspect ratio is displayed only when a preset signal is input. If an HDTV signal is input, the aspect ratio is displayed based on the Japanese HDTV standard (1920×1035). For the preset signals, see page 49.

Restoring the original picture size and position

Use GEOM RESET on the MENU 1 screen. (See page 41.)

Using the memory

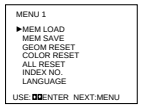


You can store the parameters of the adjusted picture into memory. Five sets of input/output selection, zooming size, H/V size and H/V position can be stored into memory and switched quickly.
Up to 5 memories are available.

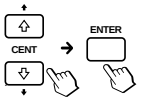
Storing the current condition

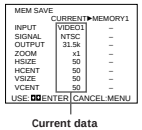
1 Adjust the picture as necessary.

2 Press the MENU button.
The MENU 1 screen appears.

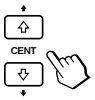


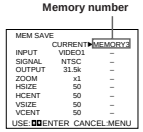
3 Press the CENT ⇳/⇳ button to move the cursor (▶) to MEM SAVE, and press the ENTER button.
The MEM SAVE screen appears.
The current data is displayed on the left column under "CURRENT" and the data in the memory on the right column. If no data is stored in the memory, that item is shown by "– ."



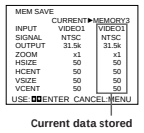


4 Press the CENT⇳/⇳ button repeatedly so that the desired memory number (1 to 5) appears.





5 Press the ENTER button.
The current data is stored under the selected memory number on the right column.
If any data has been stored in the selected memory number, it is now displayed on the left column under "CURRENT."

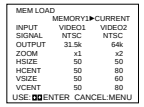


6 To quit the menu, press the MENU button three times.

Calling up the stored data

1 Press the MENU button.
The MENU 1 screen appears.

2 Press the CENT ⇳/⇳ button to move the cursor (▶) to MEM LOAD, and press the ENTER button.
The MEM LOAD menu appears.



3 Press the CENT ⇳/⇳ button repeatedly to select the desired memory number (1 to 5), and press the ENTER button.
The converter is adjusted to the selected memory data.

4 To cancel the operation, press the MENU button twice.

To call up the stored data quickly

Use the remote commander. See "Direct memory loading" on page 42.

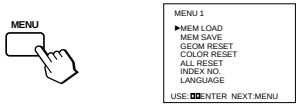
Resetting the data to the factory preset levels

There are three options for resetting the adjustment data to the factory preset levels.

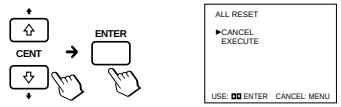
GEOM RESET: Resets ZOOM, H/V SIZE and H/V CENT currently in use.
COLOR RESET: Resets CONTRAST, PHASE and CHROMA currently in use.
ALL RESET: Resets all user adjustment items to the factory preset data and clears the memory contents.

The operation procedures are the same for the three options.

1 Press the MENU button.
The MENU 1 screen appears.



2 Press the CENT ⇳/⇳ button to move the cursor (►) to GEOM RESET, COLOR RESET or ALL RESET, and press the ENTER button.

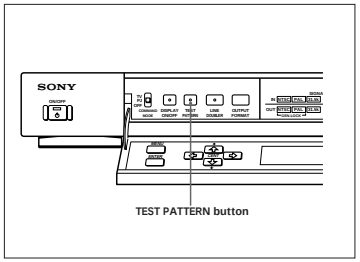


3 Press the CENT ⇳/⇳ button to move the cursor to EXECUTE, and press the ENTER button.
The adjustment data are reset to the factory preset levels.

To cancel resetting

Press the MENU button, or select CANCEL in step 3 above and press the ENTER button.

Using the test pattern

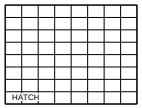


You can use the built-in test patterns to adjust the monitor or prejector screen.

Press the TEST PATTERN button.

Each time you press TEST PATTERN, the following test patterns appear in sequence.
Hatch → Box → Color bar → Gray scale → OFF (input signal) → Hatch → ...

Example: Hatch



The selected test pattern name is displayed on the screen for about 3 seconds.

To restore the normal screen

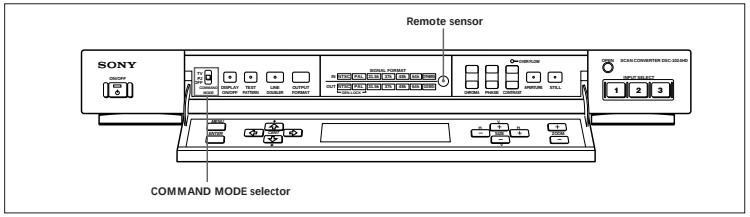
Press the TEST PATTERN button repeatedly until no test pattern is displayed. Pressing the ON/OFF switch, INPUT SELECT buttons or OUTPUT FORMAT button also restores the normal screen.

Note

When the test pattern is displayed, only the ON/OFF switch, and the INPUT SELECT, OUTPUT FORMAT, MENU and CENT ⇳/⇳ buttons will function.

English

Using the remote commander



This unit accepts wireless or wired remote commanders for Sony monitors, TVs and projectors.

Setting the type of the remote commander

Set the COMMAND MODE selector according to the type of the remote commander.

TV: Sony monitors' or TVs' commander
PJ: Sony projectors' commander
OFF: When not using the remote commandder, set to this position to avoid malfunction.

Available remote commander operations

The following operations can be controlled by the remote commander.
- Power on/off
- Input selection
- Picture adjustments: contrast, phase and chroma
- On-screen display on/off (only for video monitors and TVs)
- Menu operations (See the right column.)
- Direct memory loading (See the right column.)

The available operations and the buttons to be used for each operation are limited depending on each remote commander. See the table below.

Direct memory loading

The remote commander can quickly call up the adjustment data stored in the memory.

1 Press buttons 7, 7, 7 and ENTER on the remote commander in sequence at intervals of one second.
The "MEMORY LOAD READY" appears on the screen.
2 Select the memory number (1 to 5) you want to call up using the number button.
The converter is adjusted to the selected memory data.

To cancel the operation

Press buttons 0, 0, 0 and ENTER on the remote commander in sequence at intervals of one second. The "MEMORY LOAD EXIT" appears on the screen.
The direct memory load operation is also cancelled by turning off the unit.

Note

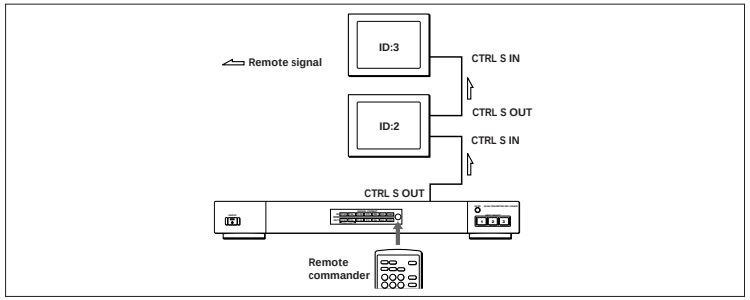
Be sure to press buttons 7, 7, 7 and ENTER, or 0, 0, 0 and ENTER at intervals of about one second.
If more than 3 seconds elapse between two presses, the operation will be cancelled. In this case, start again.

Menu operation using the remote commander

The menu screens for the remote commander are different from those for the main unit.
When you press the menu button (MENU, PAGE or ⬅) on the remote commander once or twice, the GEOM MENU or COLOR MENU appears respectively.
Select the item with the ⬆/⬇ button and press the enter button (ENTER, ➡ or M SEL) on the remote commander. Then adjust the selected item using the ⬆/⬇ button.

Remote commander model		RM-854	RM-1271	RM-PJ1292	RM-PJ350	RM-PJC520
COMMAND MODE setting		TV	PJ	PJ	PJ	PJ
Input selection	INPUT SELECT 1	LINE1	VIDEO	VIDEO	VIDEO1	1
	INPUT SELECT 2	LINE2	A	A	VIDEO2	2
	INPUT SELECT 3	LINE3	B	B	RGB	3
Menu operation	MENU	MENU	PAGE or ⬅	PAGE or ⬅	PAGE or ⬅	PAGE
	ENTER	ENTER	➡	➡	➡	M SEL
	CENT ⇳	⬆	⬆	⬆	⬆	⬆
	CENT ⇳	⬇	⬇	⬇	⬇	⬇
Picture adjustment	CONTRAST	CONTRAST	CONTR	CONTR	CONTR	CONTR
	CHROMA	CHROMA	COLOR	COLOR	COLOR	–
	PHASE	PHASE	HUE	HUE	HUE	–

Operating a specific unit with the remote commander

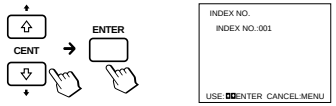


When multiple pieces of Sony equipment are connected via the CTRL S jack, you can operate a specific piece of equipment by assigning the index number preset for each piece of equipment on the converter, and then on the remote commander.
For presetting the index number on each piece of equipment, refer to the Instruction Manual of the equipment.
The following explanation is an example of use of the RM-854 remote commander.

Assigning the index number on the converter

1 Press the MENU button once.
The MENU 1 screen appears.

2 Press the CENT ↑/↓ button to move the cursor (►) to INDEX NO. and press the ENTER button.
The INDEX NO. screen appears.



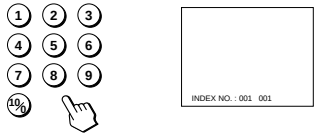
3 Press the CENT ↑/↓ button repeatedly to select the index number (1 to 255) of the equipment you want to control, and press the ENTER button.

4 To quit the menu, press the MENU button three times.

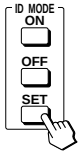
Operating the equipment with the RM-854 remote commander

1 Press the ID MODE ON button on the remote commander.
The index numbers appear on all the pieces of equipment including the converter.

2 Input the index number of the equipment you want to operate using 0–9 buttons of the remote commander.
The input number appears right next to each equipment own index number.



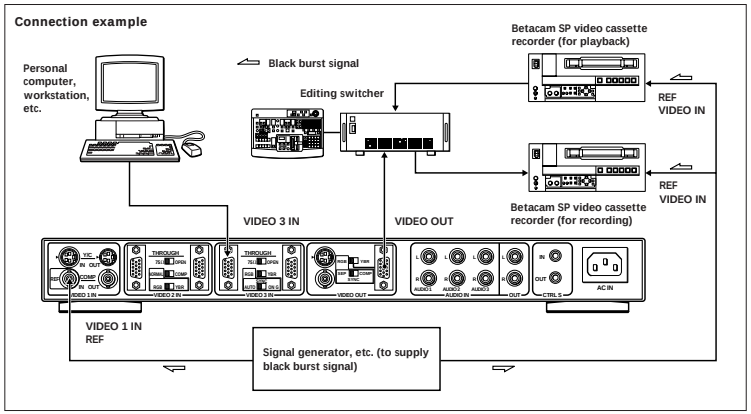
3 Press the ID MODE SET button.
The character on the selected equipment changes to cyan while others change to red.



Now you can operate only a specified equipment (All operations available in ID mode except POWER ON/OFF).

English

Using the generator lock (gen-lock)

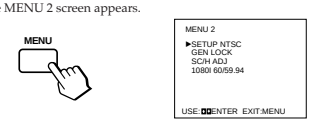

Connection example
Personal computer, workstation, etc.
Black burst signal
Editing switcher
Betacam SP video cassette recorder (for playback)
REF VIDEO IN
REF VIDEO IN
Betacam SP video cassette recorder (for recording)
VIDEO 3 IN
VIDEO OUT
VIDEO 1 IN REF
Signal generator, etc. (to supply black burst signal)

The output NTSC or PAL signal can be synchronized using the black burst signal input from a signal generator, etc. as a reference signal (gen-lock).
This enables smooth editing without transition noise when multiple video sources are used.

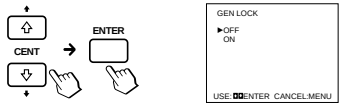
Activating the generator lock

1 Input the reference signal which corresponds with the output signal format (NTSC or PAL) from the editor or signal generator to the VIDEO 1 IN REF connector.

2 Press the MENU button twice.
The MENU 2 screen appears.



3 Press the CENT ↑/↓ button to move the cursor (►) to GEN LOCK, and press the ENTER button.
The GEN LOCK screen appears.



4 Press the CENT ↑/↓ button to move the cursor (►) to ON, and press the ENTER button.
The gen-lock is activated for the signal output from this unit and the GEN-LOCK indicator on the front panel lights.

When the converter is turned on or the input mode is changed, "GEN LOCK MODE" appears on the screen.

To deactivate the generator lock

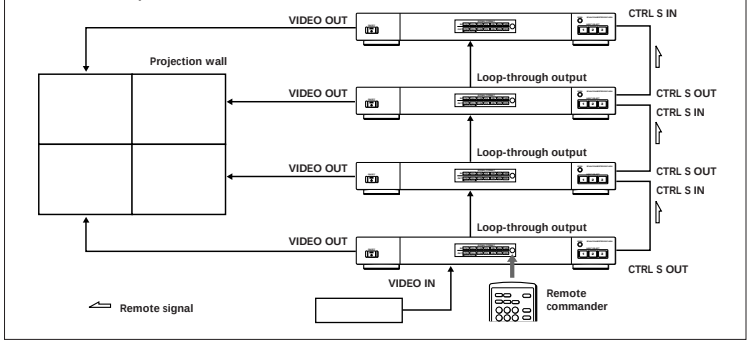
Repeat steps 1 to 3 above, then set GEN LOCK to OFF in step 4. The GEN-LOCK indicator on the front panel turns off.

Notes

- If you select GEN LOCK on the MENU 2 screen with no reference signal input, "NO REFERENCE" appears on the screen.
- "WRONG REFERENCE" will appear when the reference signal format does not correspond with the input signal format.
- The RGB/component output is recommended for editing. If you use the composite video output, a frame synchronizer may be needed to adjust the phase to the reference signal. For the SC/H (Subcarrier to Horizontal) adjustment, see page 46.

Constructing a projection wall

Connection example



When you construct a projection wall which displays a larger picture constructed from multiple projectors, use the converters as in the connection example above. Prepare one converter for each projector.
Adjust the picture of each projector so that the projection wall picture is displayed smoothly, and store the adjustment data on each converter under the same memory number. This enables you to quickly switch between a total of five projection wall pictures.

Storing the adjustment data of the picture

1 Adjust the projectors.
Use the test patterns (HATCH, COLOR BAR and GRAY SCALE) contained in the converter. For the test patterns, see page 41.

2 Adjust pieces of the picture with the converter.
Set the zooming magnification according to the number of pieces of the picture. Then adjust each piece of the picture using the H/V SIZE buttons and CENT buttons so that they connect smoothly as a large picture.

Number of pieces of the picture	Zooming
4	×2
9	×3
16	×4

For zooming and resizing the picture, see page 39.

3 Store the adjustment data in the memory of the converter.
Store the data under the same memory number on each converter.
For details, see "Storing the current condition" on page 40.

4 Repeat steps 1 to 3 for storing other picture patterns.
The adjustment data for up to five picture patterns can be stored under memory numbers 1 to 5.

Displaying the picture on the projection wall

The names of the remote commander buttons differ depending on the commander model. Refer to the table on page 42.

1 Press buttons 7, 7, 7 and ENTER on the remote commander in sequence at intervals of one second.
"MEMORY LOAD READY" appears on each projector screen.

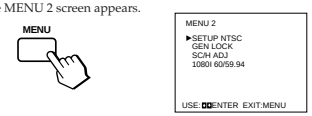
2 Select the memory number under which the adjustment data of the desired picture pattern is stored by pressing the number button.
All of the pieces of the picture are displayed properly so that they connect smoothly as a large picture.

3 To switch to another picture pattern, press the number button corresponding to the memory number.

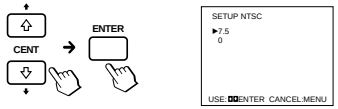
Selecting the setup level

You can select the black level (setup level) for the output NTSC signal.
The black level is set to "0"(IRE) at the factory. If the output picture is too dark, change the setting to "7.5"(IRE).

1 Press the MENU button twice.
The MENU 2 screen appears.



2 Press the CENT ✧/✧ button to move the cursor (►) to SETUP NTSC, and press the ENTER button.
The SETUP NTSC menu appears.



3 Press the CENT ✧/✧ button to select "7.5" or "0," and press the ENTER button.

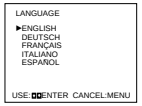
4 To quit the menu, press the MENU button twice.

Selecting the on-screen language

You can select the on-screen language among five languages.

1 Press the MENU button once.
The MENU 1 screen appears.

2 Press the CENT ✧/✧ button to move the cursor (►) to LANGUAGE and press the ENTER button.
The LANGUAGE menu appears.



3 Press the CENT ✧/✧ button repeatedly to move the cursor (►) to the desired language, and press the ENTER button.

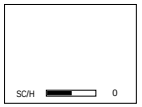
4 To quit the menu, press the MENU button three times.

Adjusting the SC/H (Subcarrier to Horizontal)

When you edit or record a composite output signal with a VCR, you need to adjust the subcarrier-to-horizontal phase (SC/H).
Prepare special measurement equipment for the adjustment.

1 Press the MENU button twice
The MENU 2 screen appears.

2 Press the CENT ✧/✧ button to move the cursor (►) to SC/H ADJ and press the ENTER button.
The adjustment value is displayed on the screen.



3 Press the CENT ✧/✧ button to adjust the SC/H.

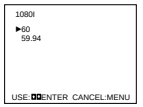
4 To quit the menu, press the MENU button twice.

Using the HDTV output

When 1080i (HDTV) signal is output, adjust the vertical frequency to 60 Hz or 59.94 Hz according to the system of the monitor or video equipment connected to DSC-1024HD.

1 Press the MENU button twice.
The MENU 2 screen appears.

2 Press the CENT ✧/✧ button to move the cursor (►) to 1080I 60/59.94, and press the ENTER button.
The 1080I setting screen appears.



3 Press the CENT ✧/✧ button to select the vertical frequency of the connected system: 60 (Hz) or 59.94 (Hz), and press the ENTER button.

4 To quit the menu, press the MENU button twice.

Note

When the output format is anything other than 1080i, you cannot switch to the 1080I setting screen. "NOT APPLICABLE" appears on the screen instead.

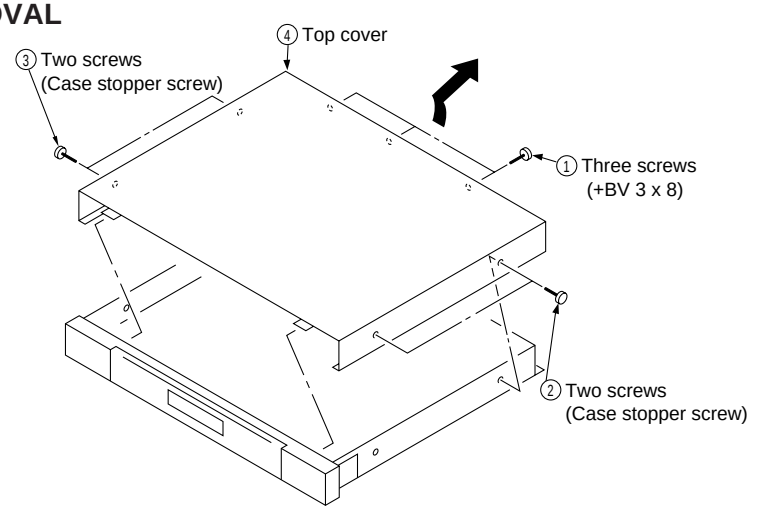
Troubleshooting

If you are having problems, check the countermeasures for each symptom listed below.
If the problem still cannot be solved, contact your nearest service facility.

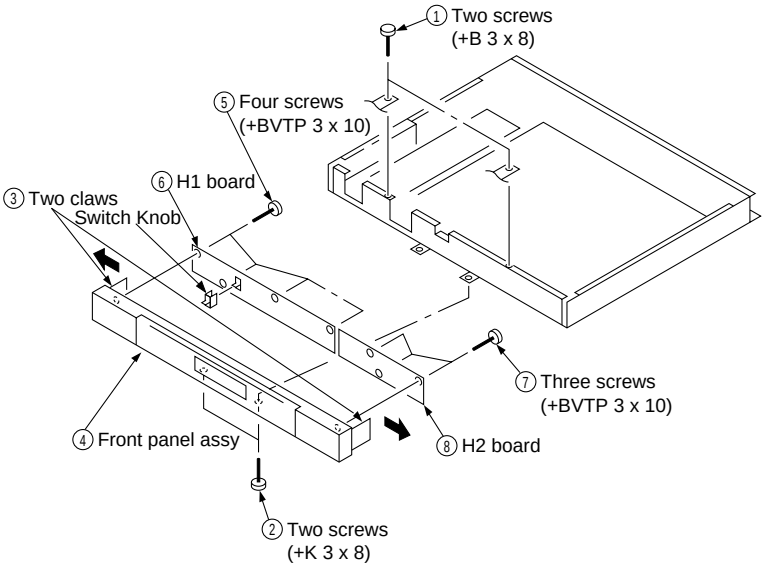
Symptom	Check and countermeasure
No picture	• Check if the indicator of the ON/OFF switch is lit. If not, make sure the power cord is connected and press the ON/OFF switch. • Check if the monitor/projector is turned on. • Check if the OUT indicator matching the monitor/projector is lit (see page 49). • Check if the monitor/projector is connected securely using the built-in test patterns. • Check if the correct INPUT SELECT button has been pressed. • Check if the input source equipment is turned on and input source is being played. • Check if one of the IN indicators is lit. If not, make sure the input source equipment is connected correctly. If equipment is connected to VIDEO 3 IN, set the SYNC AUTO/ON G selector to AUTO. If equipment is connected to VIDEO 2 IN, check if the NORMAL/COMP selector is set to the correct position.
The sync signal streaks on the screen (does not stabilize).	• If the VIDEO OUT D-sub connector is used, check to see if the RGB/YBR selector and SYNC SEP/COMP selector of the VIDEO OUT section are correct.
Picture is greenish.	• If the input source equipment is a computer connected to VIDEO 3 IN, set the SYNC AUTO/ON G selector to ON G. • Equipment which emits both external sync signals and sync on green signals cannot be connected to VIDEO 2 IN connectors. When connecting Silicon Graphics Inc. computers or some Macintosh models, connect them to VIDEO 3 IN connectors and set the SYNC AUTO/ON G selector to ON G.
Picture is purplish.	• If the input source equipment is a computer connected to VIDEO 3 IN, set the RGB/YBR selector to RGB.
Picture is too large.	• Adjust the size of the picture using the SIZE buttons. • Press the ZOOM – button to set the zooming size to x1.
Picture is enlarged vertically.	• When the output format is 1080i, the picture is enlarged if output to a monitor with the conventional Japanese HDTV format (1035i format). In this case, set the 1035/1080 format selector of the monitor to 1080, or adjust the vertical size using the V SIZE +/– button.
Remote commander does not function.	• Check the type of your remote commander and set the COMMAND MODE selector correctly (see page 42). • This unit functions with remote commanders for Sony TVs and projectors only. • Disconnect the plug from the CTRL S IN jack.
Remote commander malfunctions.	• Set the COMMAND MODE selector to OFF.
The POWER indicator flashes.	• The built-in thermal protector may have functioned. Check if the surrounding temperature is too high. • Press the POWER switch to turn the unit off. Then press it again and check the POWER indicator. If the POWER indicator still flashes, consult your dealer. • Press the POWER switch to turn the unit off. Then press it again and check the fan. If the fan does not work, consult your dealer.
"NOT APPLICABLE" is displayed on the screen.	• You have pressed a button that does not function in the current operating mode.
"NO REFERENCE" is displayed on the screen, and the GEN-LOCK indicator on the front panel flashes.	• The black burst signal is not input to the VIDEO 1 IN connector when GEN LOCK is set to ON on the MENU 2 screen.
"WRONG REFERENCE" is displayed on the screen, and the GEN-LOCK indicator on the front panel flashes.	• The format of the black burst signal input from the signal generator does not correspond with the output signal format (NTSC or PAL) of the converter.

SECTION 2
DISASSEMBLY

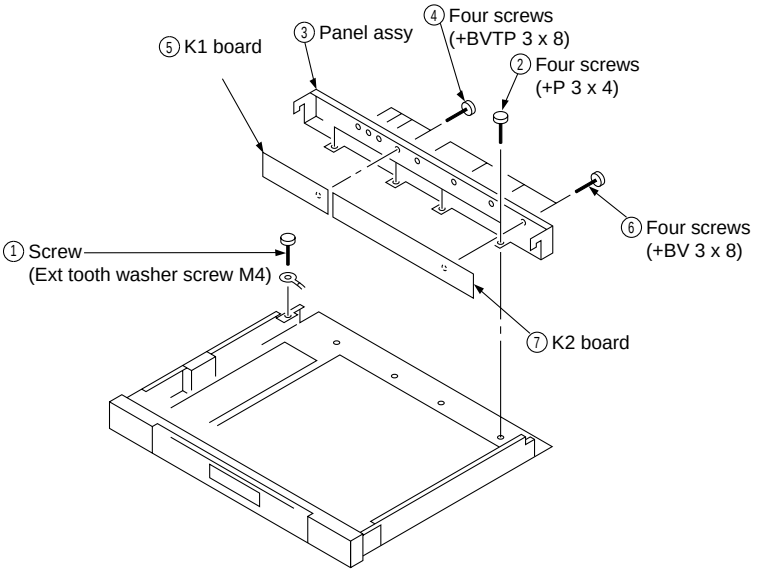
2-1. TOP COVER REMOVAL



2-2. H1 AND H2 BOARDS REMOVAL



2-3. K1 AND K2 BOARDS REMOVAL



SECTION 3
SOFTWARE (COLOR ADJUSTMENTING, ETC.)

3-1. Necessary Items

One 3.5-inch floppy disk (Parts No. 3-702-760-01)
RS-232C cable (Dsub 9/MiniDIN 8) (Parts No. 1-690-391-21)
IBM/PC or compatible (MS-DOS Ver. 5.0 or above)

3-2. Purpose

This service kit can be used for the following adjustments.

1) Color-adjusting the DSC-1024HD
2) Loading the geometry factory setting data of the DSC-1024HD
3) Checking the main CPU operation of the DSC-1024HD
4) Passing digital circuits

These adjustments are used in the following.

1) This adjustment is necessary when a signal gain is changed due to device replacement, etc. When the color or luminance of output signal is incorrect, perform this adjustment.

2) In the DSC-1024HD, the geometry factory setting data which displays an image with correct size and correct position when a preset signal is input is stored in the EEPROM. If this data is lost due to the CPU or EEPROM replacement, load this data.

3) This function displays an operational condition of the CPU of the DSC-1024HD. This allows the CPU operation to be detected when the CPU is normal, and parts which need to be repaired can be located.

4) This function is useful for discriminating failure between the decoder and encoder analog circuits when the DSC-1024HD does not operate correctly. However, note that format conversion (timing conversion) is not carried out in input/output during operation.

3-3. Setting

Connect a RS-232 cable (Dsub 9) to COM1.
Connect the MiniDIN 8 of the RS-232 cable to CN252 of the unit.

Installing software
The following files are provided in the 3.5-inch floppy disk.
DSC.EXE adjustment program
Preset data for HD10. PRE microcomputer V1.0
SCH.EXE adjustment program
Copy these three files to the same directory when installing these on a PC hard disk.

Note: Although the color data of this program is saved in a PC file, it can be saved only in the directory with DSC.EXE. The color data or preset data saved in the PC can be read for transfer to the unit. However, a file used for this procedure should be kept in the directory with DSC.EXE. When performing DSC.EXE, this should be carried out from the directory with the DSC.EXE.

3-4. Operation

Access
When MS-DOS prompt appears, type C : >DSC.
Adjusting Software (DSC. EXE) screen

Use ↑ or ↓ key to select an item, and press the ENTER key to determine the data changing mode of items.
Use ← or → key to change data, and press the ENTER key to determine the data.
Data can also be changed by typing numerals directly. (Use the ENTER key to determine the data.)

The following functions are also provided.

ALT + X
Ending DSC.EXE
"YES" : Ends
"NO" : Returns

ALT + F
Saving and loading data to a PC file
"LoadColorData" : Transfers data from a PC file to DSC.
"SaveColorData" : Saves a DSC data to a PC file.
"LoadPresetData" : Transfers preset data to DSC.
"Cancel" : Returns

ALT + S
Saving data to EEPROM
"SaveColor" : Saves a COLOR_NDX table data to the EEPROM.
"Init EEPROM" : Initializes the EEPROM. (All adjustment data are eliminated.)
"Cancel" : Returns

ALT + R
Reads the unit data again.

ALT + C
Copies a color data (Note)
"YBR V3→YBR V2"
"RGB V3→RGB V2"
"YBR V3→Y/C (NTSC) V1"
"Y/C (NT) V1→Comp (NT) V1"
"Comp (NT) V1→Comp (NT) V2"
"YBR V3→Y/C (PAL) V1"
"Y/C (PAL) V1→Comp (PAL) V1"
"Comp (PAL) V1→Comp (NT) V2"
"Cancel" : Returns

ALT + T
Setting test mode
"Digital Pass" : Outputs an input signal without passing through the digital section. A repair can be made by disconnecting a digital section and an analog section, because of a direct connection from ADC to DAC. (The input/output signal timing becomes same)
"Memory Check" : Displays flame memories A to D separately. The selected memory data are output by the amount of 4 lines, and the other memory data is not output, and therefore the memory can be identified if destroyed.
"Cancel" : Returns

Note: In the DSC-1024HD, the following 10 color tables are provided with color data.

COLOR_NDX = 0 : VIDEO 1 NTSC Y/C
COLOR_NDX = 1 : VIDEO 1 NTSC COMPOSITE
COLOR_NDX = 2 : VIDEO 1 PAL Y/C
COLOR_NDX = 3 : VIDEO 1 PAL COMPOSITE
COLOR_NDX = 4 : VIDEO 2 NTSC COMPOSITE
COLOR_NDX = 5 : VIDEO 2 PAL COMPOSITE
COLOR_NDX = 6 : VIDEO 2 YBR
COLOR_NDX = 7 : VIDEO 2 RGB
COLOR_NDX = 8 : VIDEO 3 YBR
COLOR_NDX = 9 : VIDEO 3 RGB

Alt + S command can copy all items in these tables to another table.
Example) YBR V3→YBR V2
The contents of COLOR_NDX=8 table are copied to COLOR_NDX=6 table.

3-5. Color Adjustment Procedures

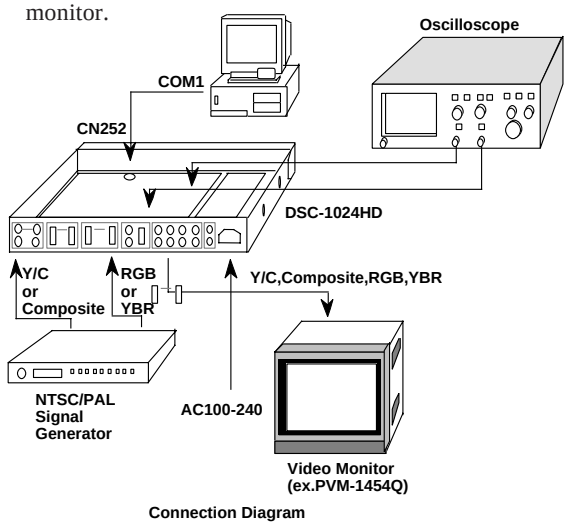
3-5-1. Preparations

Prepare the following devices.

1) NTSC signal generator (COMPOSITE, Y/C, YBR, RGB out)
2) PAL signal generator (COMPOSITE, Y/C out)
3) Video monitor (NTSC, PAL COMPOSITE, Y/C, YBR, RGB in) (ex. PVM1454Q)
4) Oscilloscope
5) Vector scope

3-5-2. Confirming Operations

1) Set OUTPUT FORMAT of the DSC-1024HD to NTSC.
2) Press TEST PATTERN button of the DSC-1024HD.
3) Set the RGB OUT slide switch of the DSC-1024HD to COMP SYNC side.
4) Make sure that the COMPOSITE, Y/C, RGB images appear on the video monitor.
5) Press the TEST PATTERN button several times until the LED goes off to cancel the TEST PATTERN.
6) Input a signal from the signal generator and make sure that COMPOSITE, Y/C, RGB in images appear on the video monitor.



Connection Diagram

3-5-3. Adjustment of Reference Frequency

1) Set the output format to NTSC.
2) Press the test pattern button to display color bars.
   Under this condition, execute aging for more than 15 minutes.
3) Adjust CV200 so that the frequency at TP1502 is approximately 14318180.
4) Set the output format to PAL.
5) Press the test pattern button to display color bars.
6) Adjust CV201 so that the frequency at TP1502 is approximately 17734475.
7) Repeating steps 3) ~6), adjust so that the frequency at TP1502 in the NTSC mode is 14318180 ± 10 Hz.
   Also, adjust so that the frequency at TP1502 in the PAL mode is 17734475 ± 10 Hz.

3-5-4. Adjustment of Subcarrier Frequency

1) Enter NTSC composite signal to the INPUT1.
   Enter VGA (graphic) color bar signal to the INPUT3.
   Connector a video monitor to the composite video output.
2) Set the INPUT SELECT to "3".
3) Set the OUTPUT format to NTSC. Select GENLOCK mode.
4) Adjust CT1501 so that the frequency at TP1501 is 3579545 ± 5 Hz.
5) Turning on/off the POWER switch, adjust CT1501 finely so that color bars are displayed within 1 second after the screen appeared.
   Repeating this more than three times, make sure there is no abnormality.
6) Enter PAL composite signal to the INPUT1.
7) Set the OUTPUT format to PAL. Select GENLOCK mode.
8) Adjust CT1500 so that the frequency at TP1501 is 4433618.75 ± 5 Hz.
9) Turning on/off the POWER switch, adjust CT1500 finely so that color bars are displayed within 1 second after the screen appeared.
   Repeating this more than three times, make sure there is no abnormality.

3-5-5. W/B Adjustment

1. Adjustment in Y color-difference input

1) Input a NTSC color bar signal (signal including 100 IRE white) to VIDEO 3 in Y color-difference.
2) Set OUTPUT to NTSC.
3) Set the slide switch on the rear to RGB, SOG, 75Ω term input, and RGB output.
4) Press Alt + R from the PC to set the "CONT" to BD.
5) Perform aging for more than 3 minutes.
6) Adjust RV703 so that TP711 waveform becomes 0.72V ±0.01 Vpp.
7) Set the slide switch on the rear to YBR input.
8) Press Alt + R on the PC and make sure that "COLOR_NDX" is 8.
9) Input a NTSC gray scale signal (including 100 IRE white).
10) Set "CONT" to D9 using the PC.
11) Adjust "EXT Y" from the PC so that TP711 waveform becomes 0.72V ±0.01 Vpp.
12) Adjust "RED DATA" from the PC so that TP712 waveform becomes 0.72V ±0.01 Vpp.

13) Adjust “BLUE DATA” from the PC so that TP710 waveform becomes 0.72V ±0.01 Vpp.
14) Set “EXT R-Y” to FF using the PC.
15) Press Alt + S on the PC perform “COLOR SAVE.”
16) Input a NTSC color bar signal (including 75 IRE white).
17) Adjust “COLOR DATA”, “HUE DATA” from the PC so that TP501 waveform becomes flat.
18) Adjust “EXT B-Y”, “HUE DATA” from the PC so that TP503 waveform becomes flat.
19) Press Alt + S on the PC perform “COLOR SAVE”.
Set the slide switch on the rear to YBR output.
20) Adjust RV705 so that the amplitude of burst signal at TP709 becomes 0.31 ± 0.005 Vpp. (Fig. 3.1)
21) Connect a vector scope to the composite output, and adjust RV701, RV704 and RV706 so that a center bright point converges into one point, and R, G, B bright points converge in the specified frame respectively.
22) Confirm that the waveform at TP711 is 0.70 ± 0.03 Vpp. (Fig. 3.2)
23) Enter NTSC gray scale signal (100 IRE white must be contained).
24) Adjust RV1301 to make the waveform at TP712 lower than 10 mVpp.
25) Adjust RV1302 to make the waveform at TP710 lower than 10 mVpp.
26) Confirm that the waveform at TP708 is below 20 mVpp (not including burst signal).
27) If adjustment in steps 22) ~ 26) failed, readjust from 2).
28) Press Alt + C on the PC and perform “YBR V3 → YBR V2”.
29) Press Alt + S on the PC and perform “COLOR SAVE”.

Fig. 3.1 Waveform at TP709

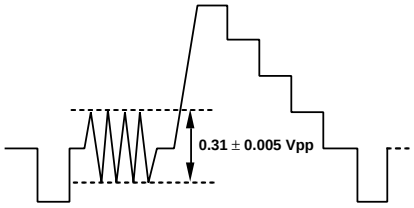
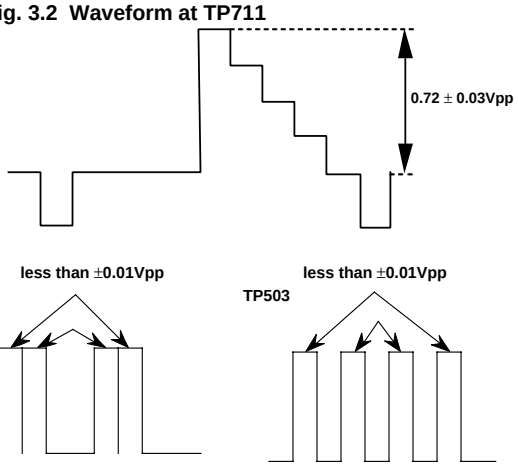


Fig. 3.2 Waveform at TP711



Adjustments in step 16 and 17

2. Adjustments in RGB input
1) Input a NTSC gray scale signal (including 100 IRE white) to VIDEO 3 in RGB.
Set the slide switch on the rear to RGB, AUTO, 75Ω term input, and RGB output.
2) Press Alt + R on the PC and make sure that “COLOR_NDX” is 9.
3) Set “CONT” to BD using the PC.
4) Adjust “RED DATA” from the PC so that TP712 waveform becomes 0.72V ±0.01 Vpp.
5) Adjust “BLUE DATA” from the PC so that TP710 waveform becomes 0.72V ±0.01 Vpp.
6) Press Alt + S on the PC perform “COLOR SAVE”.
7) Set the slide switch on the rear to YBR output.
8) Make sure that TP712 waveform becomes less than 20 mVpp.
9) Make sure that TP710 waveform becomes less than 20 mVpp.
10) Make sure that TP708 waveform becomes less than 40 mVpp. (excluding BURST)
11) If steps 7 to 10 do not meet the specification, repeat from step 1.
12) Press Alt + C on the PC and perform “RGB V3 → RGB V2”.
13) Press Alt + S on the PC and perform “COLOR SAVE”.

3. Adjustments in Y/C (NTSC) input
1) Input a NTSC gray scale signal (including 100 IRE white) to VIDEO 1 in Y/C.
Set the slide switch on the rear to RGB output.
2) Press Alt + R on the PC and make sure that“COLOR_NDX” is 0.
3) Press Alt + C on the PC and perform “YBR V3→Y/C (NTSC) V1”.
4) Adjust “SUB CONT” from the PC so that TP711 waveform becomes 0.72V ±0.01 Vpp.
5) Adjust “RED DATA” from the PC so that TP712 waveform becomes 0.72V ±0.01 Vpp.
6) Adjust “BLUE DATA” from the PC so that TP710 waveform becomes 0.72V ±0.01 Vpp.
Press Alt + S on the PC perform “COLOR SAVE”.
7) Input a NTSC color bar signal (including 75 IRE white) to VIDEO 1 in Y/C.
8) Adjust “SUB COLOR”, “HUE DATA” from the PC so that TP503 waveform becomes flat.
9) Press Alt + S on the PC and perform “COLOR SAVE”.
10) Set the slide switch on the rear YBR output.
Input a NTSC gray scale signal (including 100 IRE white) to VIDEO 1 in Y/C.
11) Make sure that TP712 waveform becomes less than 20 mVpp.
12) Make sure that TP710 waveform becomes less than 20 mVpp.
13) Make sure that TP708 waveform becomes less than 40 mVpp. (excluding BURST)
14) If steps 10 to 13 do not meet the specification, repeat from step 1.

4. Adjustments in composite video (NTSC) input
1) Input a NTSC gray scale signal (including 100 IRE white) to VIDEO 1 in COMPOSITE VIDEO.
   Set the slide switch on the rear to RGB output.
2) Press Alt + R on the PC and make sure that "COLOR_NDX" is 1.
3) Press Alt + C on the PC and perform "Y/C (NT) V1 →Comp (NT) V1".
4) Adjust RV1002 so that TP711 waveform becomes 0.72V ±0.01 Vpp
5) Input a NTSC color bar signal (including 75 IRE white).
6) Adjust "SUB COLOR", "HUE DATA" from the PC so that TP503 waveform becomes flat.
7) Press Alt + S on the PC and perform "COLOR SAVE".
8) Set the slide switch on the rear to YBR output.
   Input a NTSC gray scale signal (including 100 IRE white) to VIDEO 1 in COMPOSITE VIDEO.
9) Make sure that TP712 waveform becomes less than 20 mVpp.
10) Make sure that TP710 waveform becomes less than 20 mVpp.
11) Make sure that TP708 waveform becomes less than 40 mVpp. (excluding BURST).
12) If steps 8 to 11 do not meet the specification, repeat from step 1.
13) Press Alt + C on the PC and perform "Comp (NTSC) V1→Comp (NTSC) V2".

5. Adjustments in Y/C (PAL) input
1) Input a PAL gray scale signal (including 100 IRE white) to VIDEO 1 in Y/C.
   Set the slide switch on the rear to RGB output.
2) Press Alt + R on the PC and make sure that "COLOR_NDX" is 2.
3) Press Alt + C on the PC and perform "YBR V3→Y/C (PAL) V1".
4) Adjust "SUB CONT" from the PC so that TP711 waveform becomes 0.72V ±0.01 Vpp.
5) Adjust "RED DATA" from the PC so that TP712 waveform becomes 0.72V ±0.01 Vpp.
6) Adjust "BLUE DATA" from the PC so that TP710 waveform becomes 0.72V ±0.01 Vpp.
   Press Alt + S on the PC perform "COLOR SAVE".
7) Input a PAL color bar signal (including 75 IRE white) to VIDEO 1 in Y/C.
8) Adjust "SUB COLOR", "HUE DATA" from the PC so that TP503 waveform becomes flat.
9) Press Alt + S on the PC and perform "COLOR SAVE".
10) Set the slide switch on the rear to YBR output.
    Input a PAL gray scale signal (including 100 IRE white) to VIDEO 1 in Y/C.
11) Make sure that TP712 waveform becomes less than 20 mVpp.
12) Make sure that TP710 waveform becomes less than 20 mVpp.
13) Make sure that TP708 waveform becomes less than 40 mVpp (excluding BURST).
14) If steps 10 to 13 do not meet the specification, repeat from step 1.

6. Adjustments in COMPOSITE (PAL) input
1) Input a PAL gray scale signal (including 100 IRE white) to VIDEO 1 in COMPOSITE VIDEO.
   Set the slide switch on the rear to RGB output.
2) Press Alt + R on the PC and make sure that "COLOR_NDX" is 3.
3) Press Alt + C on the PC and perform "Y/C (PAL) V1→ Comp (PAL) V1".
4) Adjust RV1001 so that TP711 waveform becomes 0.72V ±0.01 Vpp
5) Input a PAL color bar signal (including 75 IRE white).
6) Adjust "SUB COLOR", "HUE DATA" from the PC so that TP503 waveform becomes flat.
7) Press Alt + S on the PC and perform "COLOR SAVE".
8) Set the slide switch on the rear to YBR output.
   Input a PAL gray scale signal (including 100 IRE white) to VIDEO 1 in COMPOSITE VIDEO.
9) Make sure that TP712 waveform becomes less than 20 mVpp.
10) Make sure that TP710 waveform becomes less than 20 mVpp.
11) Make sure that TP708 waveform becomes less than 40 mVpp. (excluding BURST)
12) If steps 8 to 11 do not meet the specification, repeat from step 1.
13) Press Alt + C on the PC and perform "Comp (PAL) V1→Comp (PAL) V2".

7. SCH Adjustment in NTSC GENLOCK Mode
1) Enter NTSC black burst signal to the composite (BNC) input terminal of INPUT1.
   Enter VGA (graphic) color bar signal to the INPUT3.
2) Set the rear slide switch to RGB input.
3) Select the INPUT SELECT "3" to set the output format to NTSC.
4) Set the SETUP LEVEL to 0, and GENLOCK to ON.
5) Set the vector scope to SCH measurement mode.
6) Using the communication tool, set "SCH", "SCH PRESET" to "0x80" with respect to the burst signal.
7) Save the SCH value

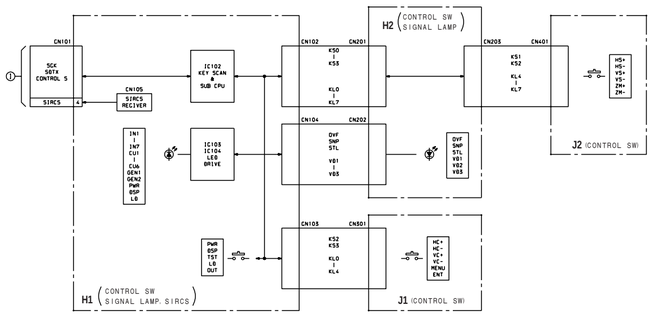
8. SCH Adjustment in PAL GENLOCK Mode
1) Enter PAL black burst signal to the composite (BNC) input terminal of INPUT1.
   Enter VGA (graphic) color bar signal to the INPUT3.
2) Set the rear slide switch to RGB input.
3) Select the input selection "3" to set the output format to PAL.
4) Set the GENLOCK to ON.
5) Set the vector scope to SCH measurement mode.
6) Using the communication tool, set "SCH", "SCH PRESET" to "0x80" with respect to the burst signal.
7) Save the SCH value.

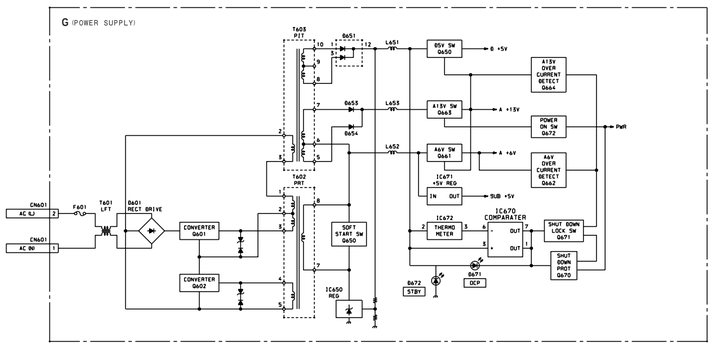
[Supplement]
Items 7 and 8 can be executed automatically by quitting the DSC.EXE after item 6 finished, then executing the SCH.EXE.
From the MS-DOS prompt, enter C : > SCH to start SCH.EXE, so that the specified register is set to 0x80 in both NTSC and PAL modes.

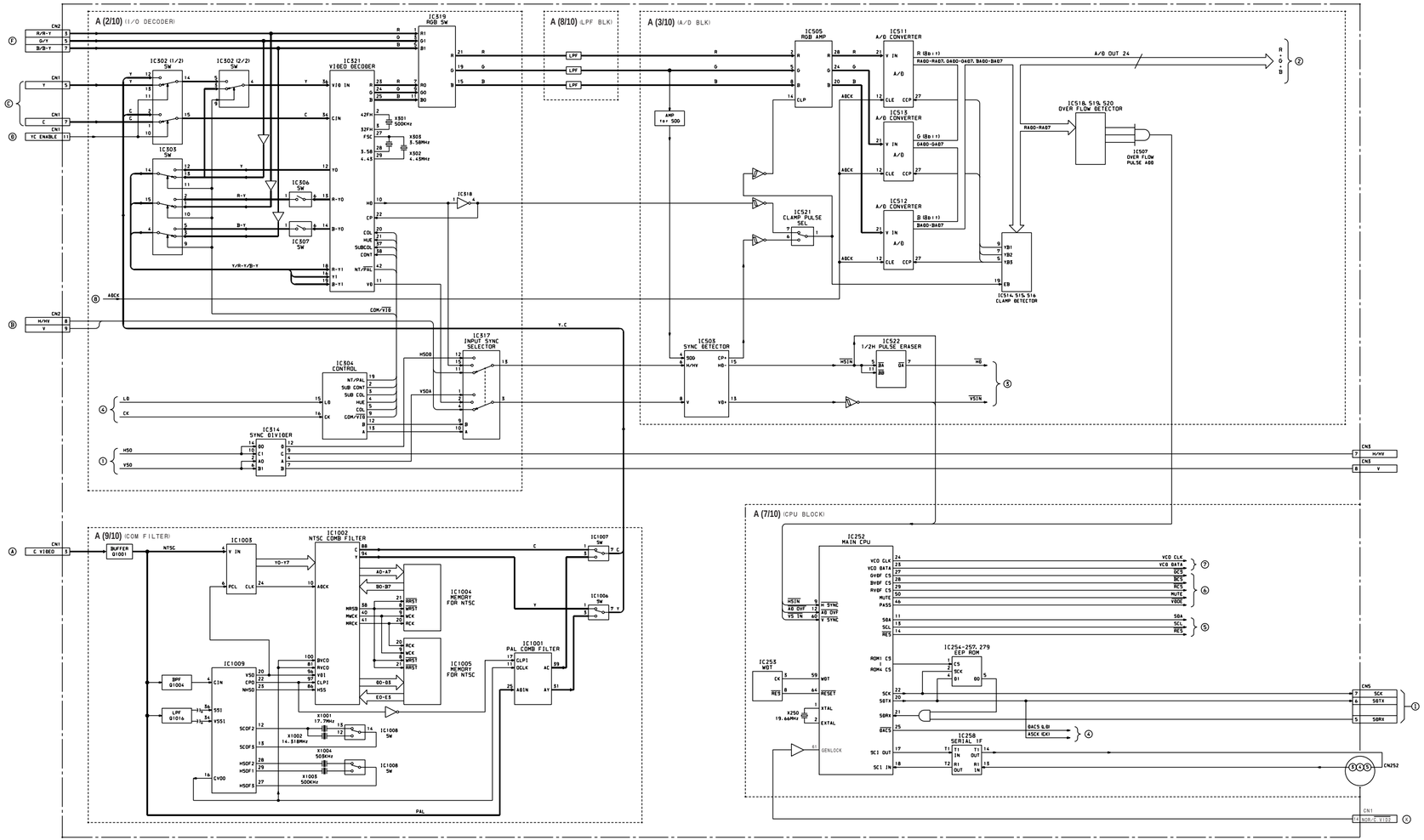
MEMO

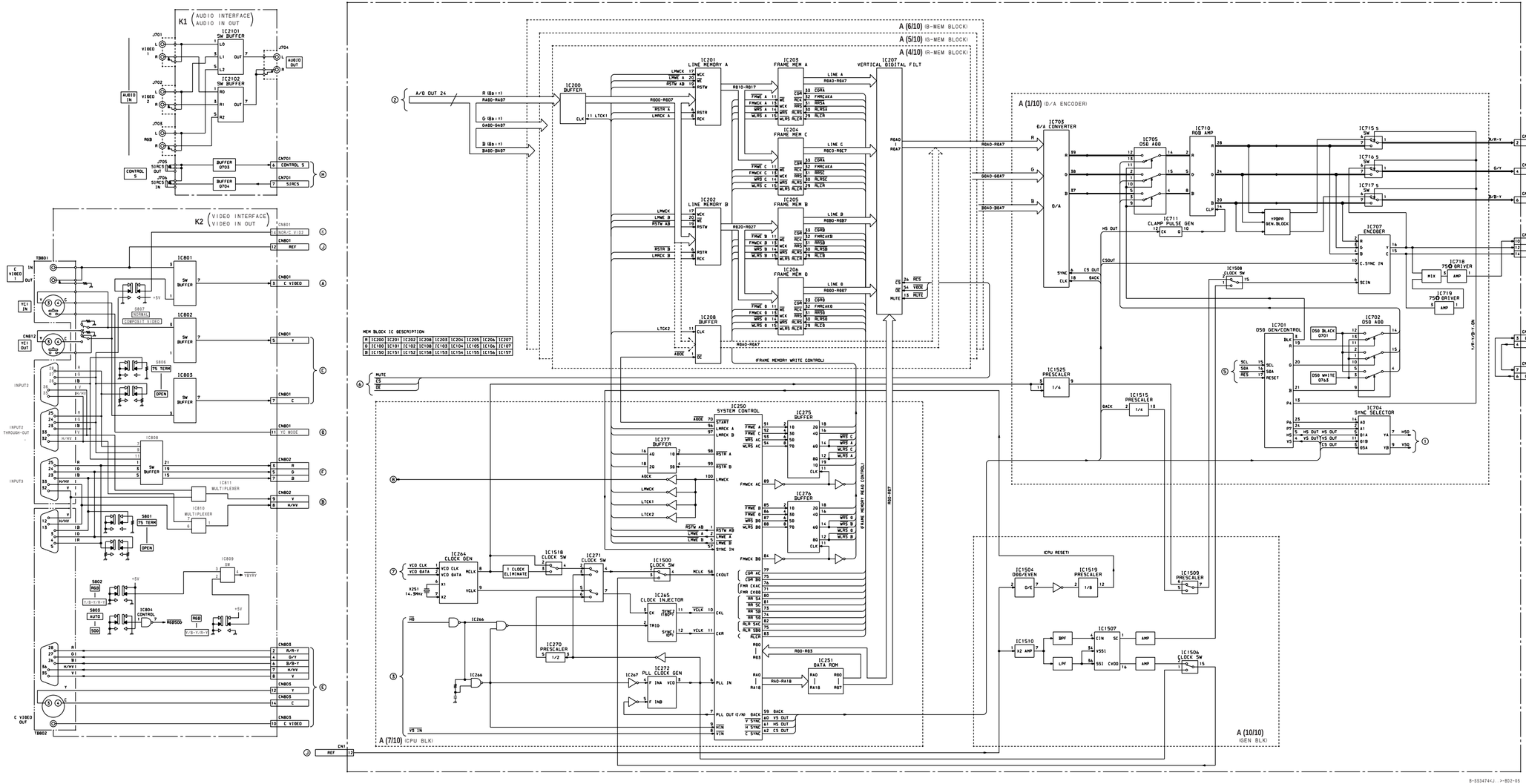
SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAMS








K1 (AUDIO INTERFACE) AUDIO IN OUT
K2 (VIDEO INTERFACE) VIDEO IN OUT
A (6/10) (B-MEM BLOCK)
A (5/10) (G-MEM BLOCK)
A (4/10) (R-MEM BLOCK)
A (1/10) (D/A ENCODER)
A (7/10) (CPU BLK)
A (10/10) (GEN BLK)
IC2101 SW BUFFER
IC2102 SW BUFFER
IC201 LINE MEMORY A
IC202 LINE MEMORY B
IC203 FRAME MEM A
IC204 FRAME MEM C
IC205 FRAME MEM B
IC206 FRAME MEM D
IC207 VERTICAL DIGITAL FILT
IC208 BUFFER
IC200 BUFFER
IC705 D/A CONVERTER
IC710 RGB AMP
IC715 SW
IC716 SW
IC717 SW
IC707 ENCODER
IC718 75Ω DRIVER
IC719 75Ω DRIVER
IC711 CLAMP PULSE GEN
IC705 OSD ADD
IC702 OSD ADD
IC701 OSD GEN/CONTROL
IC704 SYNC SELECTOR
IC1508 CLOCK SW
IC1525 PRESCALER
IC1515 PRESCALER
IC1509 PRESCALER
IC1519 PRESCALER
IC1504 ODD/EVEN
IC1510
IC1507
IC1506 CLOCK SW
IC250 SYSTEM CONTROL
IC275 BUFFER
IC276 BUFFER
IC277 BUFFER
IC264 CLOCK GEN
IC1518 CLOCK SW
IC271 CLOCK SW
IC1500 CLOCK SW
IC265 CLOCK INJECTOR
IC270 PRESCALER
IC272 PLL CLOCK GEN
IC251 DATA ROM
IC801
IC802
IC803
IC808
IC811 MULTIPLEXER
IC810 MULTIPLEXER
IC809
IC804 CONTROL
TB801
TB802
CN801
CN802
CN803
CN804
CN805
CN701
CN1
S801
S802
S803
S804
S805
S807
S808
S809
S810
S811
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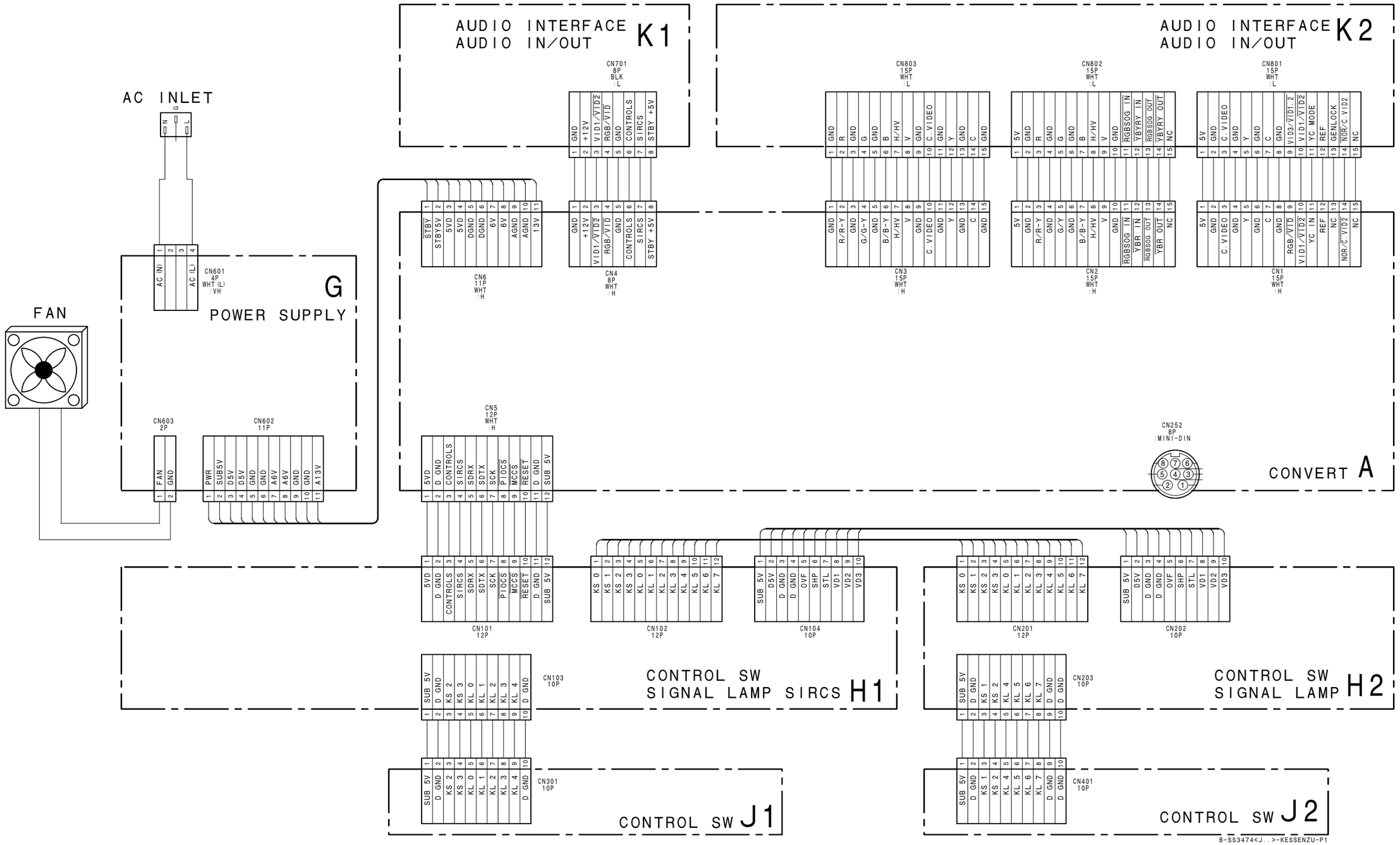
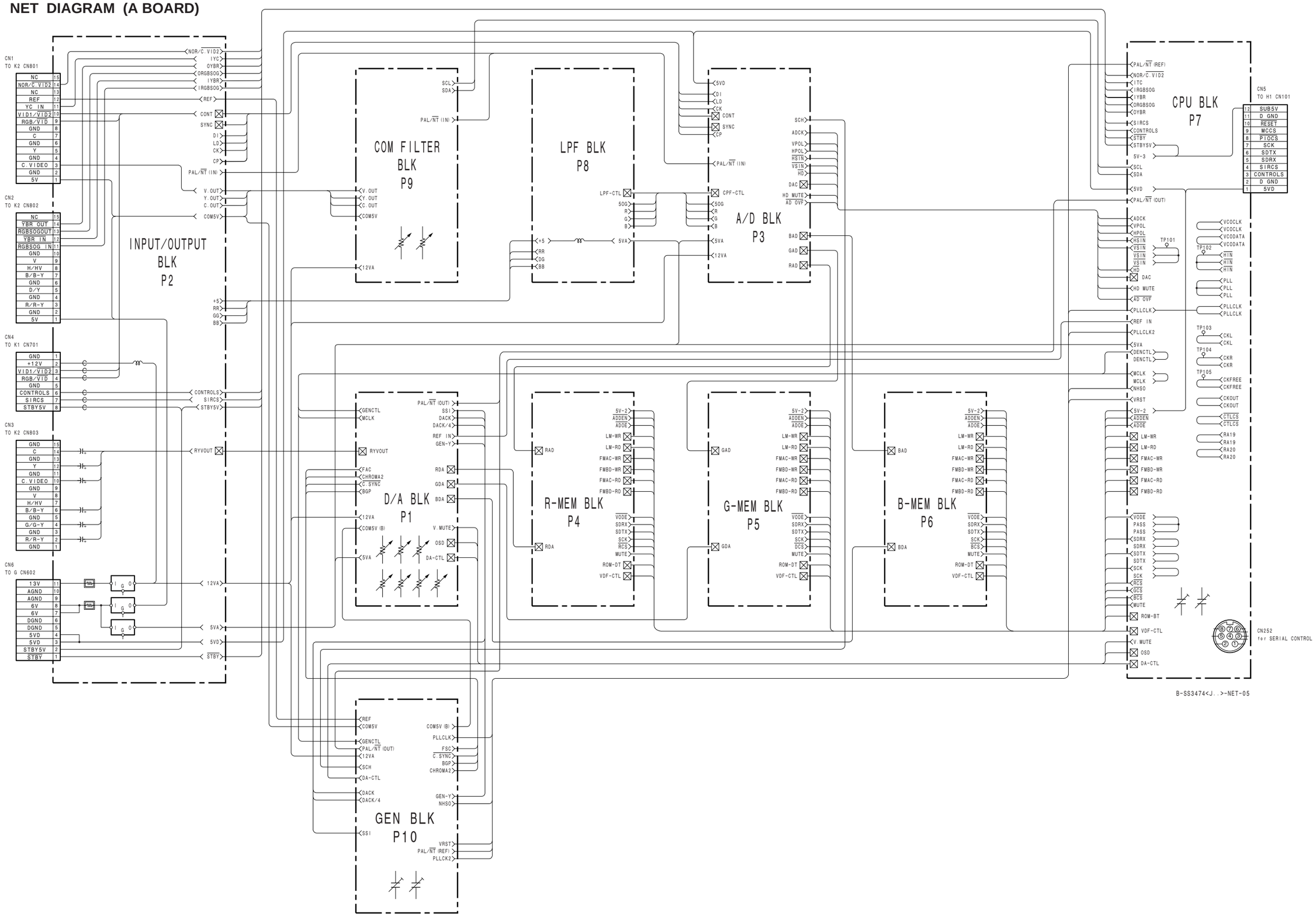
S843
S844
S845
S846

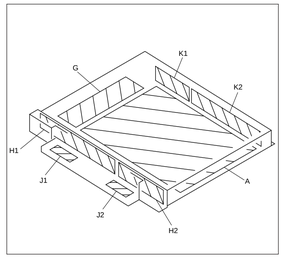
4-2. FRAME SCHEMATIC DIAGRAM



4-3. NET DIAGRAM (A BOARD)



4-4. CIRCUIT BOARDS LOCATION



4-5. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in µF unless otherwise noted. (pF: µµF) Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- Description of connects for A board.

  To P1 : To A (1/10)
  To P2 : To A (2/10)
  To P3 : To A (3/10)
  To P4 : To A (4/10)
  To P5 : To A (5/10)
  To P6 : To A (6/10)
  To P7 : To A (7/10)
  To P8 : To A (8/10)
  To P9 : To A (9/10)
  To P9 : To A (9/10)
  To P10 : To A (10/10)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

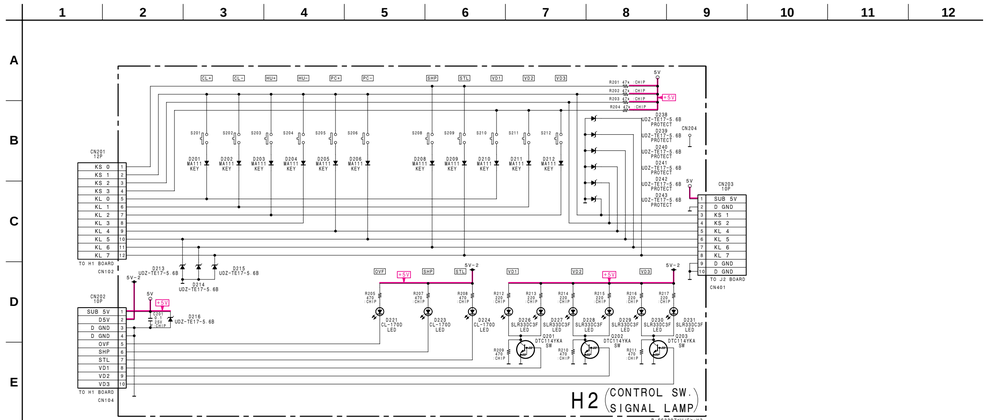
Terminal name of semiconductors in silk screen printed circuit (✱)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor	T	Collector / Base / Emitter	
②	Transistor	—	Collector / Base / Emitter	
③	Diode		Cathode / Anode	
④	Diode	T	Cathode / Anode / (NC)	
⑤	Diode	—	Cathode / Anode / (NC)	
⑥	Diode	T	Common / Anode / Cathode	
⑦	Diode	—	Common / Anode / Cathode	
⑧	Diode	T	Common / Anode / Anode	
⑨	Diode	—	Common / Anode / Anode	
⑩	Diode	T	Common / Cathode / Cathode	
⑪	Diode	—	Common / Cathode / Cathode	
⑫	Diode		Anode / Cathode / Anode / Cathode / Anode	
⑬	Transistor (FET)		Drain / Source / Gate	
⑭	Transistor (FET)		Drain / Source / Gate	
⑮	Transistor (FET)		D Source / D Drain / D Gate	
⑯	Transistor		E Emitter / C Collector / B Base	
⑰	Transistor		C2GB1E1 / E1TB1C1	
⑱	Transistor		C1GB1E2 / E1TB1C2	
⑲	Transistor	—	C1 B2 E2 / E1 B1 C2	
⑳	Transistor	—	C1 B2 E2 / E1 B1 C2	
㉑	Transistor	—	E2 B1 E1 / C2 / C1(B2)	
㉒	Transistor	—	(E) B1 E2 B2 / C1 / C2	
㉓	Transistor	—	(E) B1 E2 B2 / C1 / C2	
–	Discrete semiconductor			

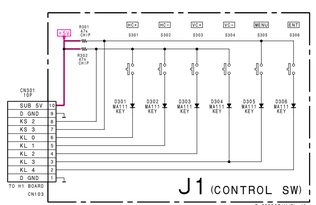
(Chip semiconductors that are not actually used are included.)

ver.1.5

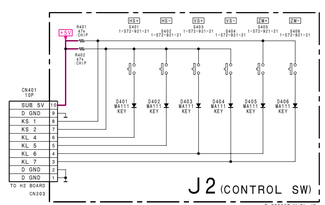
(13) H2 Board (CONTROL SW, SIGNAL LAMP)



(16) J1 Board (CONTROL SW)



(17) J2 Board (CONTROL SW)



H2 BOARD Terminal name of semiconductors in silk screen printed circuit (✱)

Ref.	✱
Q201– Q203	①
D201 –D206 D201 –D206, D221 D223, D224, D238 –D243	③

✱: **Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-11)**

- **J1 BOARD SEMICONDUCTOR LOCATION**

Ref.	✱
D301 –D306	③

✱: **Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-11)**

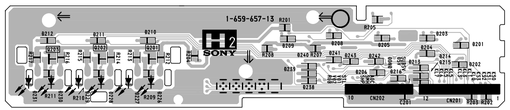
- **J2 BOARD SEMICONDUCTOR LOCATION**

Ref.	✱
D401 –D406	③

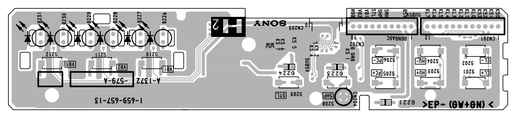
✱: **Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-11)**

H2 CONTROL SW SIGNAL LAMP | J1 CONTROL SW | J2 CONTROL SW

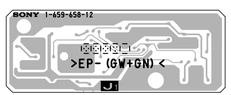
— H2 BOARD (Conductor side) —



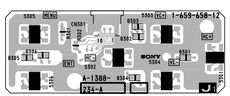
— H2 BOARD (Component side) —



— J1 BOARD (Conductor side) —

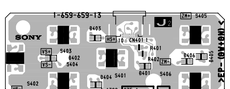


— J1 BOARD (Component side) —



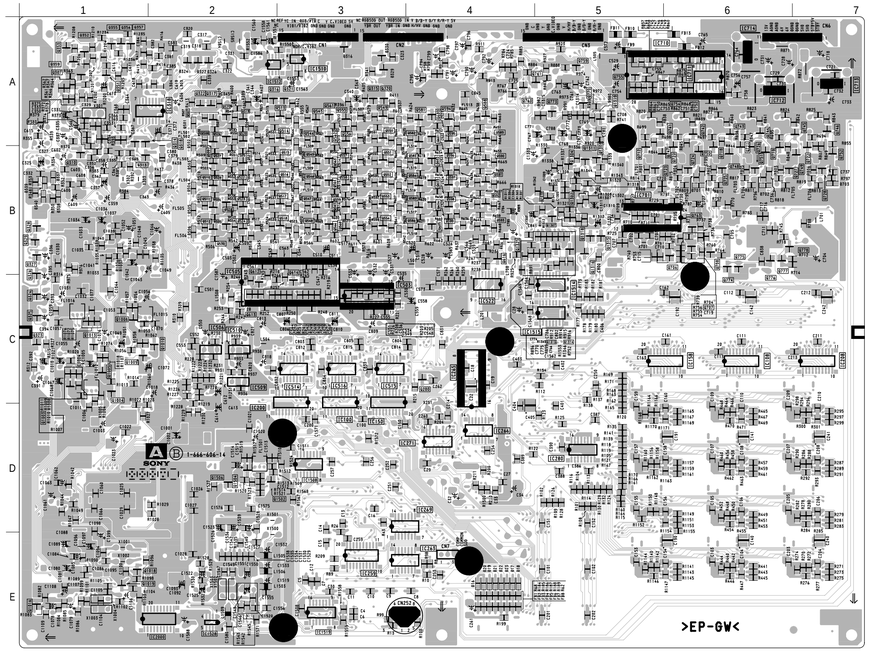
— J2 BOARD (Conductor side) —

— J2 BOARD (Component side) —



A [CONTROLLER]

— A BOARD (Conductor side) —



Schematic diagrams

← H2 J1 J2 boards

• A BOARD SEMICONDUCTOR LOCATION

IC

	(Conductor Side)	(Component Side)
IC100	D-3	
IC101		E-3
IC102		E-3
IC103		E-2
IC104		D-2
IC105		D-2
IC106		C-2
IC107		C-1
IC108	C-6	
IC150	D-3	
IC151		D-3
IC152		D-3
IC153		E-2
IC154		D-2
IC155		D-2
IC156		C-2
IC157		C-2
IC158	C-6	
IC200	D-3	
IC201		E-3
IC202		E-3
IC203		D-1
IC204		D-1
IC205		D-1
IC206		D-1
IC207		C-1
IC208	C-7	
IC250		C-3
IC251		C-3
IC252		D-4
IC253		E-5
IC254		E-5
IC255		E-4
IC256		E-4
IC257		E-4
IC258		E-4
IC259	E-3	
IC260		E-4
IC261		D-4
IC262		D-5
IC263	E-4	
IC264		D-4
IC265	C-4	
IC266	D-4	
IC267		D-3
IC268		C-3
IC269	D-4	
IC270		D-4
IC271	D-4	
IC272		D-3
IC273		D-4
IC274		D-4
IC275		D-3
IC276		D-3
IC277		D-3
IC278		D-3
IC279		E-5
IC280	D-5	
IC300		B-7
IC301		B-7
IC302		A-7
IC303		A-6
IC304		C-6
IC305		A-6
IC306		A-6
IC307		A-6
IC308		A-6
IC314		A-4
IC317		B-7
IC318	A-2	
IC319		A-6
IC321		B-6
IC322		C-7
IC501		C-6
IC502		C-6
IC503	C-3	
IC504		B-3
IC505	C-2	
IC506	C-2	
IC507		C-5
IC508		C-4
IC509	C-2	
IC510	C-2	
IC511		C-5
IC512		C-4
IC513		C-5
IC514	C-3	
IC515	C-3	
IC516	C-3	
IC517		C-4
IC518		C-5
IC519		C-4
IC520		C-5
IC521		C-4
IC522	C-4	
IC701	B-5	
IC702		B-2
IC704		B-1
IC705		B-2
IC706		B-2
IC707		B-3
IC708		B-1
IC710	A-5	
IC711	A-6	
IC712	A-6	
IC713	A-6	
IC714	A-6	
IC715		A-3
IC716		A-3
IC717		A-3
IC718		A-4
IC719		B-3
IC1001		B-7
IC1002		D-6
IC1003		D-6
IC1004		D-6
IC1005		E-6
IC1006		C-6
IC1007		C-7
IC1008		E-6
IC1009		E-6
IC1010		D-7
IC1500		D-4
IC1501		E-3
IC1502		D-4
IC1503		D-3
IC1504		A-5
IC1505		E-5
IC1506		E-5
IC1507		E-5
IC1508	D-3	
IC1509		E-5
IC1510	A-3	
IC1512	A-3	
IC1514	C-5	
IC1515	C-5	
IC1516		D-5
IC1517		D-4
IC1518		D-4
IC1519	E-3	
IC1520		C-5
IC1521		D-5
IC1522		D-5
IC1523		E-6
IC1525		C-2
IC1526		C-2
IC1527		A-5
IC1528	E-2	

TRANSISTOR

	(Conductor Side)	(Component Side)
Q1		D-4
Q200	C-4	
Q215		C-3
Q307	A-1	
Q310	B-1	
Q311		A-7
Q313	B-1	
Q314	A-1	
Q315	A-3	
Q316	A-2	
Q317	A-2	
Q318	A-1	
Q320	A-3	
Q321	A-3	
Q322	A-2	
Q323	C-1	
Q324	C-1	
Q325	C-1	
Q326	B-1	
Q327	B-1	
Q328	B-1	
Q329	A-1	
Q351	A-1	
Q352	A-1	
Q353	A-1	
Q354		A-6
Q355	A-1	
Q356	A-1	
Q357	A-1	
Q358		A-6
Q359	A-1	
Q501		A-6
Q502		A-6
Q504		B-6
Q505		B-6
Q506		B-6
Q507	A-2	
Q508	A-2	
Q509	B-2	
Q510	B-2	
Q511	B-2	
Q512	B-2	
Q513	A-3	
Q514	A-3	
Q515	B-3	
Q516	B-3	
Q517	B-3	
Q518	B-3	
Q519	A-2	
Q520	A-2	
Q521	B-2	
Q522	B-2	
Q523	B-2	
Q524	B-2	
Q525	A-2	
Q526	A-2	
Q527	B-2	
Q528	B-2	
Q529	B-2	
Q530	B-2	
Q531		A-5
Q532		A-5
Q533		B-5
Q534		B-5
Q535		B-5
Q536		B-5
Q537		B-5
Q538		A-5
Q539		B-5
Q540		B-5
Q541		B-5
Q542		B-5
Q543	A-3	
Q544	A-3	
Q545	B-3	
Q546	B-3	
Q547	B-3	
Q548	B-3	
Q549	A-3	
Q550	A-3	
Q551	B-3	
Q552	B-3	
Q553	B-3	
Q554	B-3	
Q555	A-3	
Q556	A-3	
Q557	B-3	
Q558	B-3	
Q559	B-3	
Q560	B-3	
Q561	A-3	
Q562	A-3	
Q563	B-3	
Q564	B-3	
Q565	B-3	
Q566	B-3	
Q567		A-4
Q568		A-4
Q569		B-4
Q570		B-4
Q571		B-4
Q572		B-4
Q573		B-4
Q574		A-4
Q575		A-4
Q576		B-4
Q577		B-4
Q578		B-4
Q579		B-4
Q580		B-4
Q581	A-4	
Q582	A-4	
Q583	B-4	
Q584		B-4
Q585	B-4	
Q586	B-4	
Q587	B-4	
Q588	A-4	
Q589	A-4	
Q590	B-4	
Q591	B-4	
Q592	B-4	
Q593	B-4	
Q594	A-4	
Q595	A-4	
Q596	B-4	
Q597	B-4	
Q598	B-4	
Q599	B-4	
Q600	A-4	
Q601	A-4	
Q602	B-4	
Q603	B-4	
Q604	B-4	
Q605	B-4	
Q606		A-3
Q607		A-3
Q608		B-3
Q609		B-3
Q610		B-3
Q611		B-3
Q612	C-2	
Q613	C-2	
Q614	C-3	
Q615		B-4
Q616	B-4	
Q701		B-2
Q703		A-3
Q704		A-4
Q705		B-2
Q706	B-6	
Q710		B-2
Q711		B-2
Q712		B-1
Q713		B-1
Q714		B-2
Q715		B-1
Q716		B-1
Q717	B-5	
Q718	B-6	
Q719	B-6	
Q720	B-6	
Q721	B-6	
Q722	A-7	
Q723	B-5	
Q724	B-6	
Q725	B-6	
Q726	B-6	
Q727	B-6	
Q728	B-7	
Q729		A-2
Q730		A-2
Q731		A-2
Q732		A-1
Q733		A-1
Q734		A-1
Q735		A-2
Q736		A-2
Q737		A-2
Q738		A-1
Q739		A-1
Q740		A-1
Q741	A-5	
Q742	A-6	
Q743	A-6	
Q744	A-6	
Q745	A-7	
Q746	A-7	
Q747	B-5	
Q748	B-6	
Q749	B-7	
Q750	B-6	
Q751	B-6	
Q752	B-7	
Q753		A-3
Q754	A-5	
Q755	A-5	
Q759	A-5	
Q760	A-4	
Q761	A-4	
Q763	B-6	
Q764		B-2
Q765		A-3
Q766		A-2
Q767		A-2
Q768		A-3
Q769		A-3
Q770	A-5	
Q771		A-3
Q772		A-3
Q773	A-5	
Q774	B-6	
Q775	B-6	
Q776	B-6	
Q777	B-6	
Q778	B-6	
Q1001		C-6
Q1002		C-7
Q1003	C-1	
Q1004	C-1	
Q1005	C-1	
Q1006		C-7
Q1007		C-6
Q1008	C-1	
Q1009	C-1	
Q1010	C-2	
Q1011		C-7
Q1012		C-6
Q1013	C-1	
Q1014		C-6
Q1015		E-7
Q1016	E-1	
Q1017		E-7
Q1018	E-1	
Q1019	E-1	
Q1020		E-6
Q1301		B-3
Q1302	B-5	
Q1303		B-3
Q1304	B-5	
Q1305		B-3
Q1306		B-3
Q1307	B-5	
Q1308	B-5	
Q1309		B-3
Q1310	B-5	
Q1311	B-5	
Q1312		B-3
Q1313	B-5	
Q1314	B-5	
Q1315	B-5	
Q1316	B-5	
Q1318	B-5	
Q1319	A-5	
Q1320		B-3
Q1321		B-3
Q1322		B-3
Q1501		D-5
Q1502	D-2	
Q1503		D-5
Q1504	D-2	
Q1505		D-5
Q1506	D-2	

DIODE

	(Conductor Side)	(Component Side)
D1		E-4
D16	E-4	
D17	E-4	
D18	E-4	
D19	E-4	
D20	E-4	
D21	E-4	
D22	E-4	
D23	E-4	
D306		A-3
D308		A-3
D310		A-3
D312		A-3
D314		A-3
D324	A-2	
D326	A-2	
D328		A-3
D329	A-3	
D330	A-3	
D331		A-6
D332		A-4
D334		A-5
D336		A-6
D341		B-7
D342		B-7
D501	A-2	
D502	A-2	
D503	B-2	
D504	B-2	
D505	B-2	
D506	B-2	
D508		A-5
D510		B-5
D512		B-5
D514		B-5
D516		B-5
D518		B-5
D520	A-3	
D521	B-3	
D522	B-3	
D523	B-3	
D524	B-3	
D526		A-4
D528		B-4
D530		B-4
D532		B-4
D534		B-4
D536		B-4
D537	A-3	
D538	A-3	
D539	A-3	
D540	B-3	
D541	B-3	
D542	B-3	
D544		A-3
D546		B-3
D548		B-3
D550		B-3
D552		B-3
D554		A-3
D555	A-3	
D701	B-1	
D702	B-6	
D703	B-7	
D704		B-2
D705		B-2
D706		B-2
D707		B-1
D708		B-1
D709		B-1
D710		B-2
D711		A-2
D712		B-2
D713		B-2
D714		B-2
D715		B-1
D716		A-2
D717		A-2
D718		A-2
D719		A-1
D720		B-1
D721		A-1
D722		A-2
D723		A-2
D724		A-2
D725		A-1
D726		A-1
D727		A-1
D1001		D-5
D1002		D-6
D1501		E-5
D1502		E-6

CRISTAL

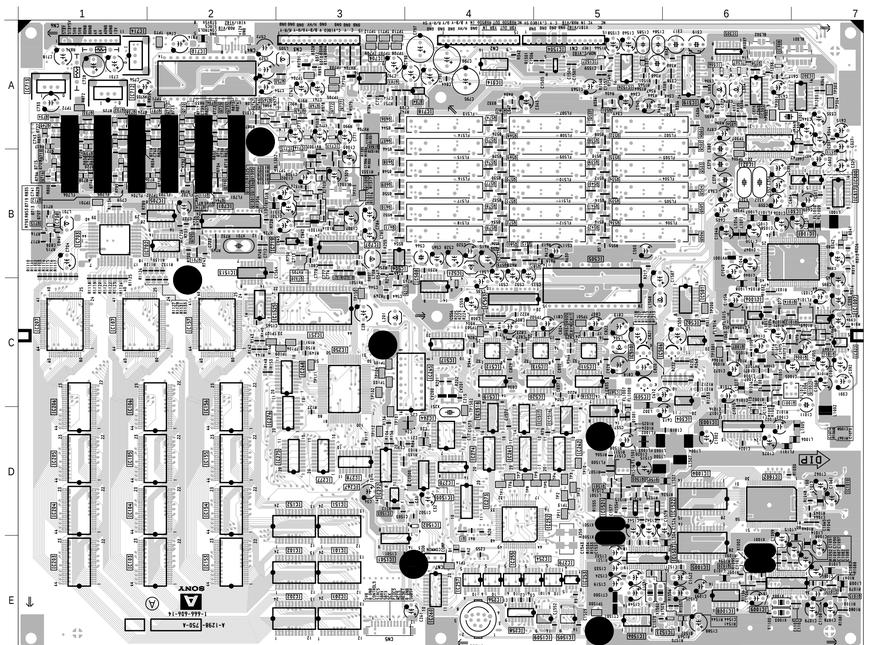
	(Conductor Side)	(Component Side)
X250		D-5
X251	D-4	
X301	A-1	
X302	B-1	
X303	B-1	
X701	B-5	
X1001	B-5	
X1002	E-1	
X1003	E-1	
X1004	E-1	
X1005	E-1	
X1501	D-2	
X1502	E-2	
X1503	E-2	

VARIABLE RESISTOR

	(Conductor Side)	(Component Side)
RV701		A-3
RV703		A-1
RV704		A-3
RV705		B-3
RV706		A-3
RV1001		B-6
RV1002		C-6
RV1301		B-3
RV1302		B-3

✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-11)

— A BOARD (Component side) —



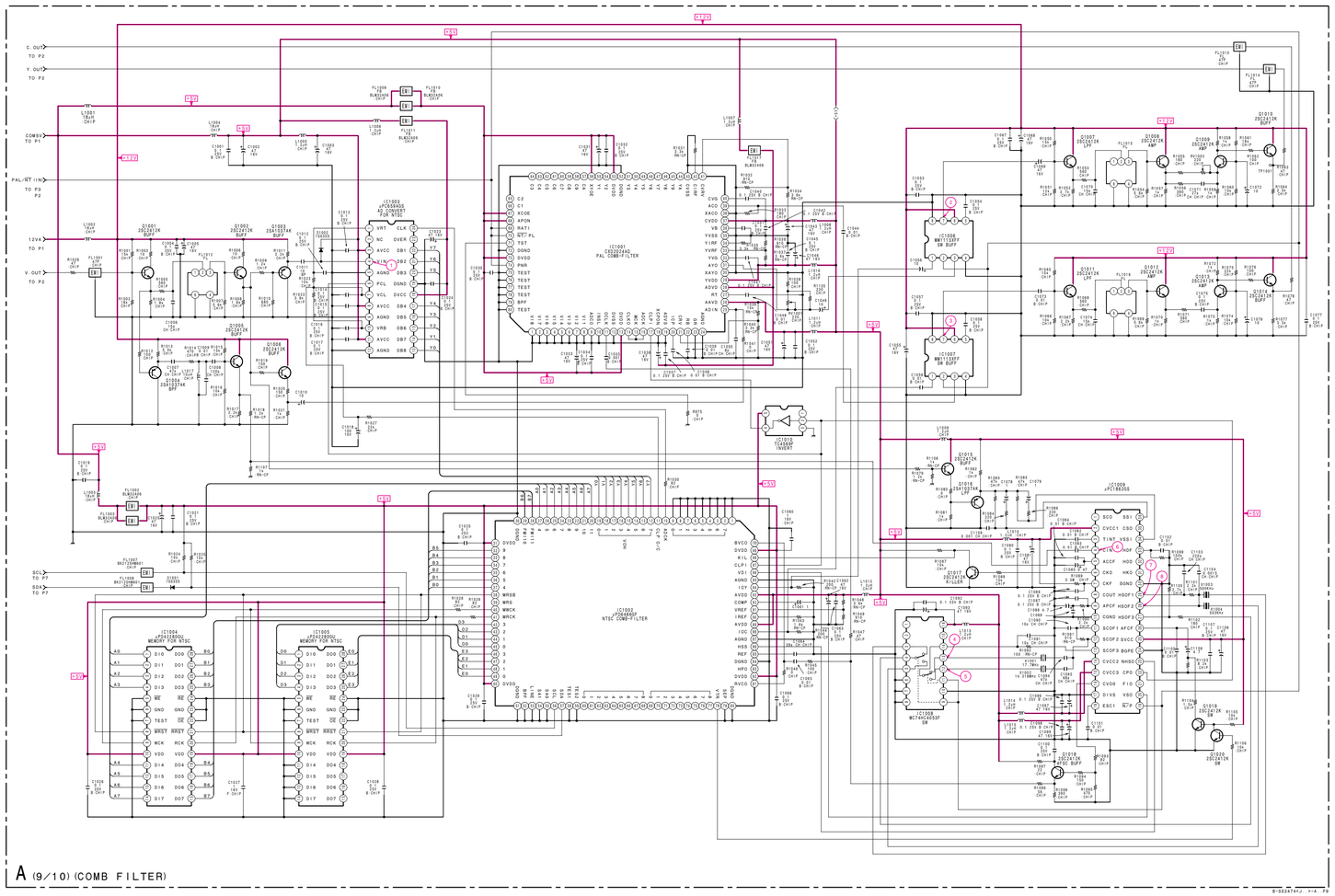
(1) A Board (COMB FILTER : 9/10)

- **A(9/10) BOARD VOLTAGE LIST**

Ref.	Pin No.	Voltage [V]
IC1003	1	3.2
	3	4.9
	4	2.5
	6	0.3
	7	2.6
	8	4.9
	10	2.3
	11	4.9
	12	0
	13	0.3
	14	0.2
	15	0.2
	16	0.2
	17	0.2
	18	4.9
	20	0.2
	21	4.2
	22	0.1
	23	0.2
	24	0.4
IC1006	1	6.7
	2	0
	3	6.7
	4	0
	5	6.7
	6	12.0
	7	6.0
	8	0
IC1007	1	6.7
	2	0
	3	6.7
	4	0
	5	6.7
	6	12.0
	7	6.0
	8	0
IC1008	3	0.2
	4	0
	5	2.7
	6	0
	7	0
	8	0
	9	0
	10	0
	11	0
	12	3.0
	13	0.1
	14	3.0
	16	4.9
IC1009	1	2.9
	2	4.9
	3	2.5
	4	3.1
	5	0
	6	0
	7	3.4
	8	2.3
	9	2.6
	10	0
	11	2.9
	12	2.9
	13	3.0
	14	4.9
	15	4.9
	16	2.8
	17	0
	18	3.5
	19	0
	20	4.2
	21	4.2
	22	0.2
	23	4.0
	24	0
	25	4.9
	26	3.2
	27	2.7
	28	3.8
	29	3.8
	30	0
	31	0
	32	4.4
	33	0
	34	2.4
	35	4.4
	36	2.4
IC1010	1	0
	2	0.3
	4	4.7
	5	4.9
Q1001	B	6.4
	C	11.9
	E	5.8
Q1002	B	5.2
	C	11.9
	E	4.9
Q1003	B	1.9
	C	0
	E	2.5
Q1004	B	5.8
	C	0
	E	6.4
Q1005	B	4.7
	E	4.1
Q1006	B	4.6
	C	12.0
	E	4.0
Q1007	B	5.3
	E	4.7
Q1008	B	4.3
	E	3.6
Q1009	B	4.2
	C	8.6
	E	3.6
Q1010	B	8.6
	C	12.0
	E	7.9
Q1011	B	4.7
	E	4.1
Q1012	B	3.7
	E	3.1
Q1013	B	3.7
	C	9.0
	E	3.1
Q1014	B	9.0
	E	8.3
Q1015	B	2.1
	C	4.9
	E	1.5
Q1016	B	1.5
	C	0
	E	2.1
Q1017	B	0
	C	3.8
	E	0
Q1018	B	2.4
	C	4.8
	E	1.7
Q1019	B	0
	C	0
	E	0
Q1020	B	0.7
	C	0
	E	0

- **A(9/10) BOARD WAVEFORMS**

① 4.0 Vp-p (H)	② 0.4 Vp-p (H)	③ 0.3 Vp-p (H)	④ 0.07 Vp-p (17.7MHz)	⑤ 0.16 Vp-p (14.318MHz)
⑥ 0.3 Vp-p (H)	⑦ 0.4 Vp-p (500KHz)	⑧ 0.65 Vp-p (503KHz)		



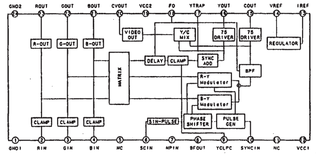
• A(1/10) BOARD WAVEFORMS

① 2.5 Vp-p	② RGB 1.0 Vp-p (H)	② Y/B-Y/R-Y 0.7 Vp-p (H)	③ RGB 1.1 Vp-p (H)	③ Y/B-Y/R-Y 0.7 Vp-p (H)
④ RGB 1.0 Vp-p (H)	④ Y/B-Y/R-Y 0.7 Vp-p (H)	⑤ RGB 0.7 Vp-p (H)	⑤ Y/B-Y/R-Y 1.2 Vp-p (H)	⑥ RGB 0.7 Vp-p (H)
⑥ Y/B-Y/R-Y 1.2 Vp-p (H)	⑦ RGB 0.7 Vp-p (H)	⑦ Y/B-Y/R-Y 1.2 Vp-p (H)	⑧ 3.5 Vp-p	⑨ 4.5 Vp-p (H)
⑩ 4.5 Vp-p (V)				

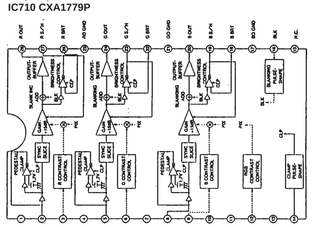
• A(1/10) BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC701	1	5.0		9	3.9	Q728	B	0	Q764	B	5
	2	0		11	5.0		C	5		C	0
	3	0		12	3.2		E	0		E	5
	4	4.9		14	0.3						
	5	4.3		15	0.2	Q729	B	1	Q765	B	7.1
	6	5.0		16	0		C	0		C	12.0
	9	*		18	3.9		E	1.7		E	6.5
	10	*		19	11.1	Q730	B	0	Q766	B	6.5
	11	0		20	3.9		C	0		C	10
	12	4.9		23	11.2		E	0.6		E	5.9
	13	0		24	4.2	Q731	B	1.1	Q767	B	2.6
	14	4.7		26	3.9		C	0		C	5.9
	16	4.7		27	11.1		E	1.7		E	1.9
	17	5.0		28	4.2						
	19	0	IC711	6	0	Q732	B	0	Q768	B	7.2
	20	0		7	5.0		C	12.0		C	12.0
	21	0		9	0.7		E	0.6		E	6.5
	23	0		10	0.3	Q733	B	1.0	Q769	B	6.5
	24	0		11	5.0		C	0		C	10.1
IC702	1	1.3		12	4.3		E	1.7		E	5.9
	2	0.6		13	5.0						
	3	1.3		14	4.7	Q734	B	0	Q770	B	2.6
	4	0.7		16	5.0		C	0		C	5.9
	5	0.6					E	0.7		E	1.9
	6	0	IC715	1	3.3	Q735	B	4.1	Q771	B	7.1
	7	0		5	3.5		C	1.7		C	12
	10	0.6		6	3.5		E	4.7		E	6.5
	11	1.3		7	3.3						
	14	0.6	IC716	1	3.6	Q736	B	4.1	Q772	B	6.5
	15	0.7		4	0		C	1.7		C	10.9
	16	5.0		6	0.6		E	4.7		E	5.0
				7	3.6						
IC703	1	0.3	Q701	B	1.2	Q737	B	4.1	Q773	B	2.6
	2	1.8		C	5.0		C	1.7		C	5.9
	3	3.6		E	0.6		E	4.8		E	2.0
	4	4.4	Q738	B	4.1	Q1301	B	4.6			
	7	5.0	Q703	B	4.3		C	0.7		C	12
	8	1.8		C	5.0		E	4.8		E	4.0
	9	3.6		E	5.0	Q739	B	4.1	Q1302	B	4.7
	10	3.6	Q704	B	4.3		C	0.7		C	12
	11	1.8		C	5.0		E	4.8		E	4.1
	12	3.0		E	5.0	Q740	B	4.1	Q1303	B	4.6
	13	2.3	Q705	B	1.3		C	0.7		C	12
	14	2.4		C	5.0		E	4.8		E	4.0
	15	2.0		E	1.9	Q741	B	4.1	Q1304	B	3.6
	19	1.8	Q706	B	0.7		C	0.6		C	0.0
	20	1.8		C	0		E	4.7		E	3.0
	21	0		E	1.2	Q742	B	1.7	Q1305	B	4.7
	22	1.8	Q710	B	0		C	0		C	7.2
	24	1.0		C	1.8		E	0		E	4.0
	25	1.1		E	0	Q743	B	2.5	Q1306	B	4.1
	26	1.1	Q711	B	0		C	0		C	12.0
	32	5.0		C	0.8		E	0		E	3.5
	33	5.0		E	1.4	Q744	B	1.8	Q1307	B	3.0
	36	1.3					C	0		C	9.6
	37	0.7	Q712	B	0.9		E	0		E	3.6
	38	0.9		C	0	Q745	B	0	Q1308	B	9.6
	39	0.8		E	1.5		C	2.4		C	12
	41	1.0	Q713	B	0.7		E	0		E	8.3
	42	0.9		C	0	Q746	B	1.7	Q1309	B	9.6
	43	1.5		E	1.4		C	0		C	12
	44	1.0	Q714	B	4.1		E	0		E	9.0
IC704	2	5.0		C	1.4	Q747	B	2.4	Q1310	B	4.4
	3	4.1		E	4.7		C	5		C	12
	4	4.3	Q715	B	4.1		E	1.7		E	3.8
	7	4.4		C	1.4	Q748	B	2.4	Q1311	B	4.1
	8	0		E	4.7		C	5		C	12
	11	4.9	Q716	B	4.1		E	1.8		E	3.5
	14	4.9		C	1.4	Q749	B	2.4	Q1312	B	7.1
	16	5.0		E	4.8		C	5		C	4.1
IC705	1	0.6	Q717	B	0		E	1.7		E	7.8
	2	0.9		C	2.8	Q750	B	0	Q1313	G	0
	3	0.6		E	0		C	5		D	1.9
	4	0.7	Q718	G	0		E	1.7		S	0
	5	0.7		D	3.0	Q751	B	0	Q1314	G	4.6
	6	0		S	0		C	5		D	0
	9	0	Q719	B	0		E	1.8		S	0
	10	0.6		C	2.8	Q752	B	0	Q1315	G	5.0
	11	0.8		E	0		C	5		D	0.1
	12	0.9	Q720	B	1.8		E	1.7		S	0
	15	0.6		C	0	Q753	B	3.9	Q1316	G	5.0
	16	0.6	Q721	B	1.8		C	12.6		D	0.1
IC707	2	0.6		C	0		E	3.3		S	5
	3	4.4		E	0	Q754	B	4.2	Q1318	G	0.1
	4	0.6	Q722	B	1.7		C	12.6		D	0
	6	0		C	0		E	3.7		S	5
	7	0.6		E	0	Q755	B	4.0	Q1319	B	0
	8	3.8	Q723	B	2.8		C	12		E	0.7
	10	1.2		C	5.0		E	3.4			
	11	0.1		E	2.2	Q759	B	2.3	Q1320	B	0.1
	12	5.0	Q724	B	0		C	0		E	4.7
	13	2.0		C	5		E	0.1			0.1
	14	3.9		E	0	Q760	B	2.5	Q1321	G	0
	15	0.6	Q725	B	3.0		C	0		D	0
	16	1.4		C	5		E	0		S	0
	19	2.0		E	2.3	Q761	B	2.2	Q1322	G	5
	20	0.7	Q726	B	0		C	0		D	0
	21	0.6		C	5		E	0.1		S	0
	22	0.6		E	2.3	Q763	B	0			
	23	0.6	Q727	B	0		C	5			
IC710	1	12.0		C	5		E	1.3			
	2	3.1		E	2.2						
	3	3.9									
	5	0									
	6	3.9									
	8	3.1									

• A(1/10) BOARD
IC707 CXA1645M



• A(1/10) BOARD
IC710 CXA1779P



Schematic diagram
← A board (9/10)

Schematic diagram
A board (1/10) →

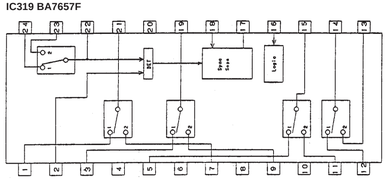
• A(2/10) BOARD VOLTAGE LIST

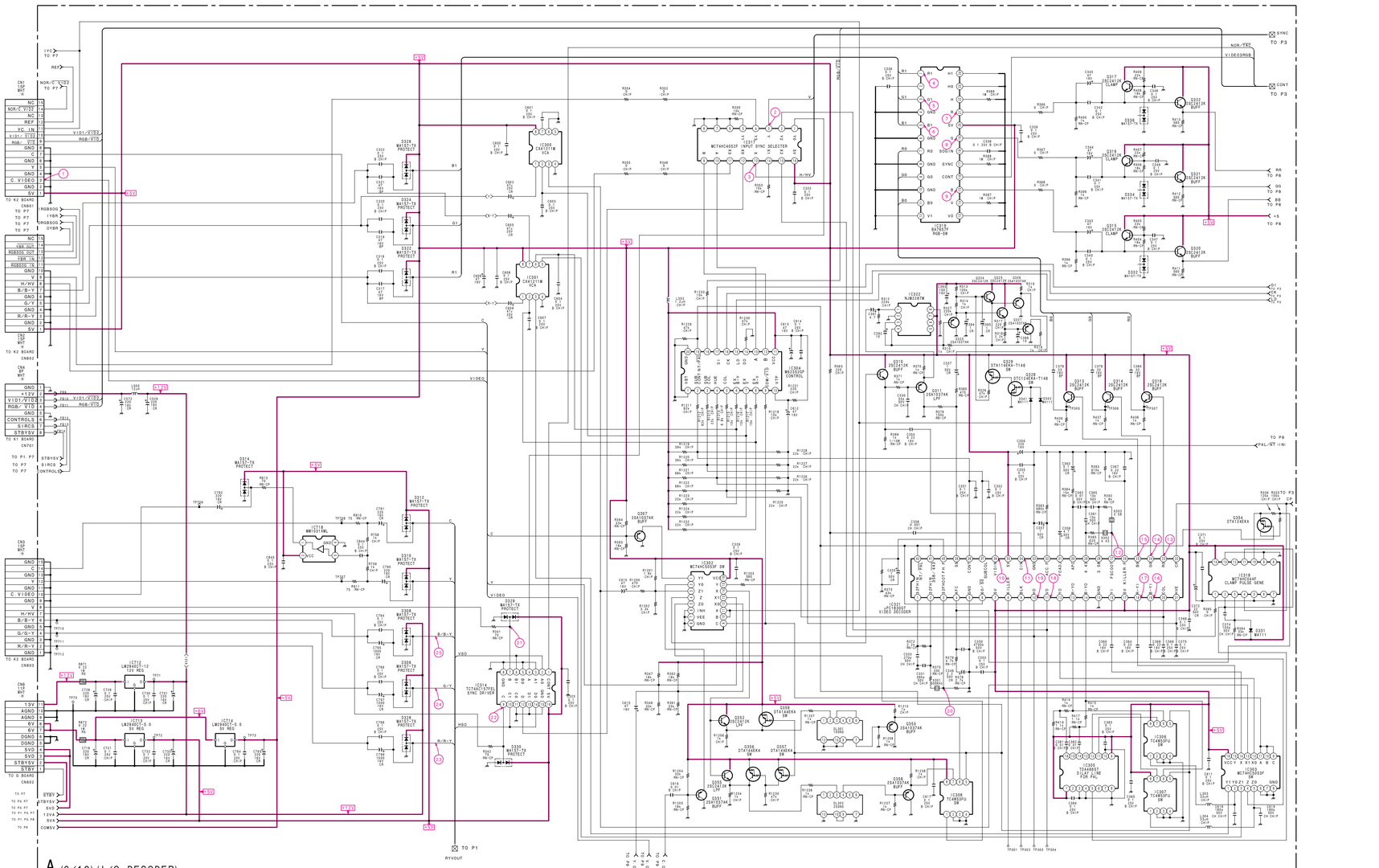
Ref.	Pin No.	Voltage [V]
IC300	1	2.7
	2	3.0
	3	2.1
	7	3.0
	8	5.0
IC301	1	2.7
	2	4.9
	3	2.1
	5	2.1
	6	3.5
	7	2.6
	8	5.0
IC302	1	0.1
	2	2.5
	3	3.2
	4	1.8
	5	1.9
	9	0
	10	0
	11	0
	12	3.0
	13	3.2
	14	3.0
	15	2.7
	16	5.0
IC303	1	2.1
	2	2.5
	3	2.1
	4	2.3
	5	2.3
	9	0
	10	0
	11	0
	12	2.2
	13	2.1
	14	2.2
	15	2.5
	16	5.0
IC304	2	0
	3	2.4
	4	2.6
	5	2.3
	6	2.8
	7	2.1
	8	4.8
	9	0
	10	4.8
	12	4.8
	13	4.8
	14	0.1
	15	0
	16	5.0
	17	0
	18	4.8
	19	4.8
IC305	1	5.0
	5	0.3
	9	5.0
	11	2.9
	12	2.9
	14	1.4
	15	0
	16	0
IC306	1	2.5
	5	4.8
	6	2.5
	7	2.9
	8	5.0
IC307	1	2.3
	5	4.8
	6	2.3
	7	2.9
	8	5.0
IC314	1	4.5
	2	0
	4	0
	6	0
	7	0
	9	4.4
	10	4.4
	12	0
	14	4.4
	16	5.0
IC317	1	0
	2	4.9
	3	2.6
	4	0
	5	0
	9	4.8
	10	4.8
	11	3.1
	12	0
	13	3.1
	14	0
	15	4.0
	16	5.0
IC318	1	4.0
	2	0.4
	3	4.7
	4	0.2
	6	5.0
	8	5.0
	10	5.0
	12	5.0
	14	5.0
IC319	1	3.6
	2	0.1
	3	3.6
	5	3.6
	7	0
	9	0
	11	0
	14	0
	15	2.1
	16	4.6
	17	0
	18	2.5
	19	2.1
	20	5.0
	21	2.8
	22	0
IC321	1	3.7
	2	3.7
	3	2.7
	4	3.1
	6	4.8
	7	5.0
	8	4.3
	9	3.7
	10	4.0
	11	4.2
	12	2.2
	13	2.5
	14	2.3
	16	1.9
	17	5.0
	18	0
	19	2.5
	20	2.0
	21	2.0
	22	0.2
	23	2.0
	24	2.0
	25	2.0
	26	0.3
	27	3.0
	28	2.8
	29	1.7
	30	2.1
	31	2.6
	32	0.1
	34	1.4
	35	5.0
	36	2.3
	37	2.2
	38	2.2
	39	2.6
	40	0
	41	4.8
	42	4.8
IC712	IN	12.7
	OUT	12.0
IC713	IN	6.2
	OUT	5.0
IC714	IN	6.2
	OUT	5.0
Q307	B	1.8
	C	0
	E	0.7
Q310	B	1.9
	C	5.0
	E	1.2
Q311	B	1.4
	C	0
	E	2.0
Q313	B	2.0
	C	5.0
	E	1.4
Q314	B	2.0
	C	5.0
	E	1.4
Q315	B	2.8
	C	5.0
	E	2.5
Q316	B	2.8
	C	5.0
	E	2.7
Q317	B	2.8
	C	5.0
	E	2.5
Q318	B	2.0
	C	5.0
	E	1.4
Q320	B	2.5
	C	5.0
	E	1.8
Q321	B	2.7
	C	5.0
	E	2.0
Q322	B	2.5
	C	5.0
	E	1.9
Q351	B	0
	C	0
	E	2.5
Q352	B	3.0
	C	5.0
	E	2.4
Q353	B	1.2
	C	0
	E	1.8

• A(2/10) BOARD WAVEFORMS

① 0.25 Vp-p (H)	② 2.0 Vp-p (V)	③ 2.5 Vp-p (H)	④ 0.7 Vp-p (H)
⑤ 0.8 Vp-p (H)	⑥ 0.7 Vp-p (H)	⑦ RGB 0.7 Vp-p ( )	⑦ Y/B-Y/R-Y 0.6 Vp-p (H)
⑧ RGB/Y/B-Y/R-Y 0.8 Vp-p (H)	⑨ RGB 0.7 Vp-p (H)	⑨ Y/B-Y/R-Y 0.6 Vp-p (H)	⑩ 0.6 Vp-p (H)
⑪ 0.6 Vp-p (3.58/4.43)	⑫ 0.2 Vp-p (H)	⑬ 0.6 Vp-p (H)	⑭ 0.8 Vp-p (H)
⑮ 0.6 Vp-p (H)	⑯ 0.6 Vp-p (H)	⑰ 0.8 Vp-p (H)	⑱ 3.8 Vp-p (V)
⑲ 3.8 Vp-p (H)	⑳ 1.6 Vp-p (500KMz)	㉑ 4.5 Vp-p (V)	㉒ 4.5 Vp-p (H)
㉓ RGB 0.7 Vp-p (H)	㉓ Y/B-Y/R-Y 0.6 Vp-p (H)	㉔ RGB/Y/B-Y/R-Y 0.8 Vp-p (H)	㉕ RGB 0.7 Vp-p (H)
㉕ Y/B-Y/R-Y 0.6 Vp-p (H)			

• A(2/10) BOARD IC319 BA7657F





• A(3/10) BOARD VOLTAGE LIST

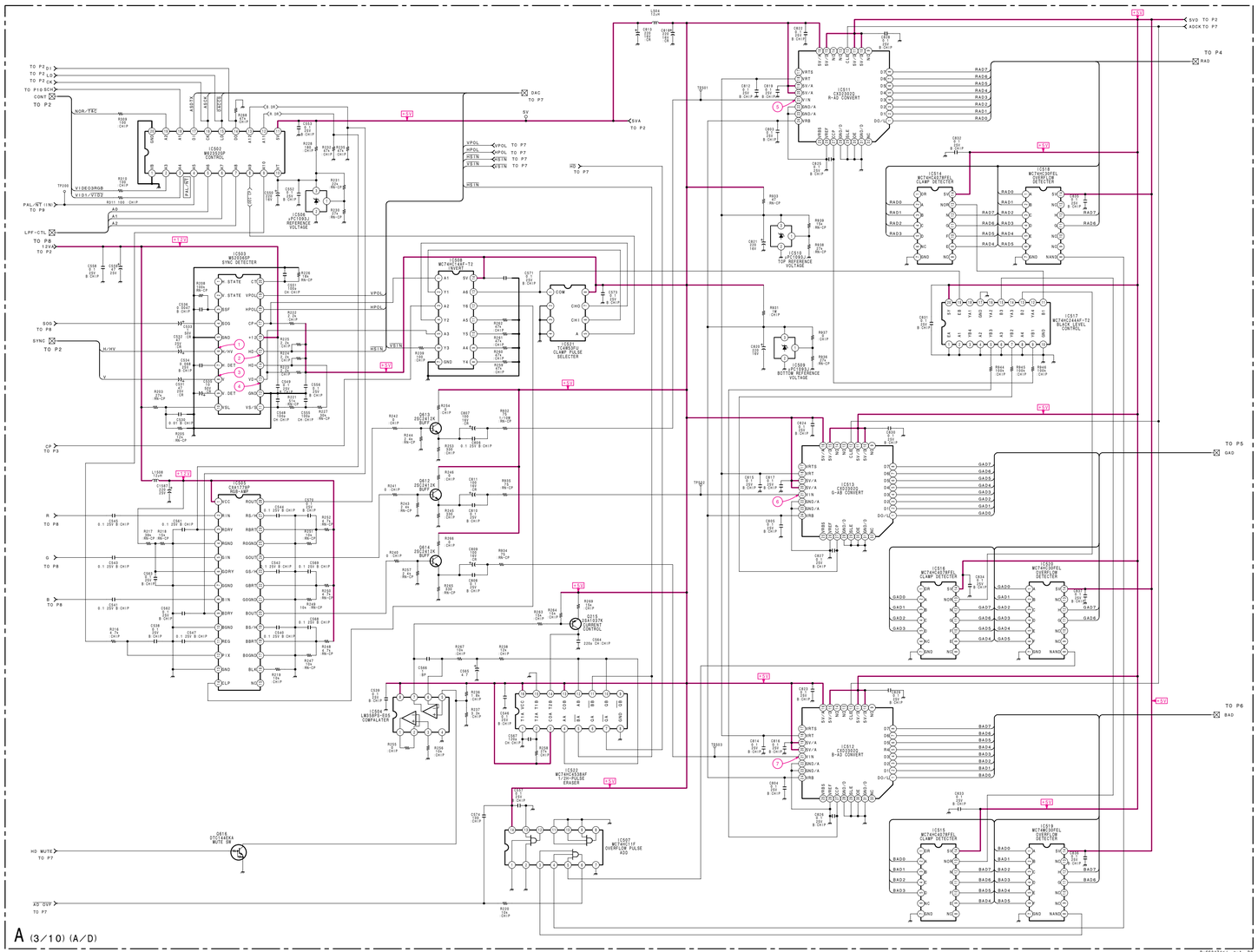
Ref.	Pin No.	Voltage [V]
IC502	2	4.6
	3	0
	4	0
	5	0
	6	4.6
	7	0
	8	4.6
	9	3.9
	10	4.6
	11	5.0
	12	3.3
	13	3.1
	14	0.1
	15	0
	16	5.0
	17	5.0
	18	4.6
	19	4.6
IC503	1	5.1
	2	5.1
	3	4.6
	4	4.5
	6	6.2
	7	0.8
	8	6.3
	9	3.5
	10	2.4
	11	0.7
	13	0.1
	14	0.6
	15	4.3
	16	12.0
	17	0.2
	18	5.1
	19	5.1
	20	3.5
IC504	1	0
	2	0
	3	0
	5	0.1
	6	0.8
	7	0.6
	8	4.9
IC505	1	12.0
	2	3.2
	3	3.3
	5	3.3
	6	4.0
	8	3.2
	9	3.1
	11	5.0
	12	3.9
	14	0.1
	16	0
	18	8.1
	19	11.9
	20	4.0
	22	8.2
	23	11.9
	24	4.5
	26	8.2
	27	11.9
	28	4.0
IC506	1	2.5
	2	0
	3	4.6
IC507	1	0
	2	0
	3	4.9
	4	4.9
	5	3.0
	6	3.0
	14	4.9
IC508	1	0.2
	2	4.8
	3	0.2
	4	4.8
	5	0.1
	6	4.9
	8	4.9
	9	0
	10	4.9
	11	0
	12	0.1
	13	4.8
	14	4.9
IC509	1	2.5
	3	2.5
IC510	1	2.5
	3	3.9
IC511	1	1.6
	2	0.7
	3	0.3
	4	0.2
	5	0.2
	6	1.8
	7	1.9
	8	1.9
	10	0
	11	4.9
	12	1.8
	15	4.9
	16	4.9
	17	3.9
	18	3.9
	19	4.9
	20	4.9
	21	3.5
	24	2.5
	25	2.5
	26	0
	27	2.7
IC512	1	2.5
	2	1.7
	3	0.5
	4	1.9
	5	1.9
	6	0
	7	1.9
	8	0
	10	4.9
	11	4.9
	12	1.9
	15	4.9
	16	4.9
	17	3.9
	18	3.9
	19	4.9
	20	4.9
	21	3.0
	24	2.5
	25	2.5
	26	0
	27	2.5
IC513	1	3.4
	2	3.7
	3	3.7
	4	2.5
	5	2.0
	6	4.3
	7	4.3
	8	1.9
	10	4.9
	11	4.9
	12	1.8
	15	4.9
	16	4.9
	17	3.9
	18	3.9
	19	4.9
	20	4.9
	21	3.5
	24	2.5
	25	2.5
	26	0
	27	2.7
IC514	1	2.6
	2	1.6
	3	0.9
	4	0.3
	5	0.2
	9	0.2
	10	1.8
	11	1.9
	12	1.9
	13	2.3
	14	4.9
IC515	1	3.6
	2	2.3
	3	1.5
	4	0.7
	5	1.9
	9	1.9
	10	0
	11	1.9
	12	1.9
	13	1.3
	14	4.9
IC516	1	4.7
	2	3.3
	3	3.0
	4	2.9
	5	3.2
	9	2.0
	10	4.3
	11	4.3
	12	1.9
	13	0.2
	14	4.9
IC517	5	2.5
	7	2.7
	9	2.5
	11	2.3
	13	0.4
	15	1.2
	19	4.8
	20	4.9
IC518	1	1.6
	2	0.7
	3	0.3
	4	0.2
	5	0.2
	6	1.8
	8	4.9
	11	1.9
	12	1.9
	14	4.9
IC519	1	2.5
	2	1.7
	3	0.6
	4	1.9
	5	1.9
	6	0
	8	4.9
	11	1.9
	12	1.9
	14	4.9
IC520	1	3.4
	2	3.6
	3	3.6
	4	2.6
	5	2.0
	6	4.3
	8	3.0
	11	4.3
	12	1.9
	14	4.9
IC521	1	4.8
	5	0
	6	4.8
	7	4.8
	8	4.9
IC522	3	4.9
	4	0.9
	5	4.3
	6	0.6
	12	0.8
	14	3.5
	15	0
	16	4.9
Q612	B	4.5
	C	4.9
	E	3.9
Q613	B	4.0
	C	4.9
	E	3.3
Q614	B	4.0
	C	4.9
	E	3.3

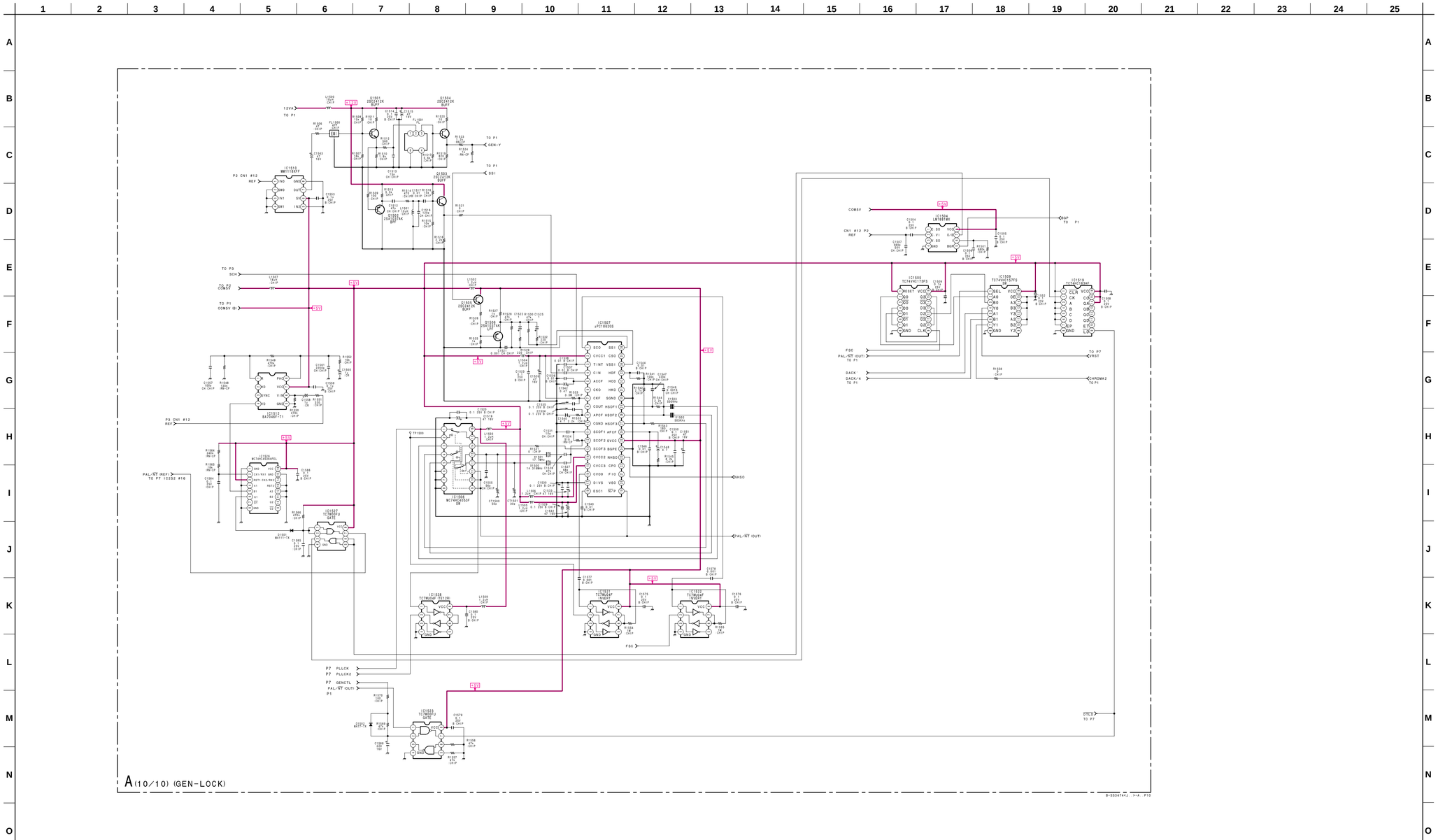
• A(3/10) BOARD WAVEFORMS

① 2.5 Vp-p (H)	② 4.7 Vp-p (H)	③ 2.0 Vp-p (V)
④ 5.0 Vp-p (V)	⑤ RGB 1.5 Vp-p (H)	⑤ Y/B-Y/R-Y 1.0 Vp-p (H)
⑥ RGB 1.8 Vp-p (H)	⑥ Y/B-Y/R-Y 1.0 Vp-p (H)	⑦ RGB 1.2 Vp-p (H)
⑦ Y/B-Y/R-Y 1.1 Vp-p (H)		

Schematic diagram
← A board (2/10)

Schematic diagram
A board (3/10) →



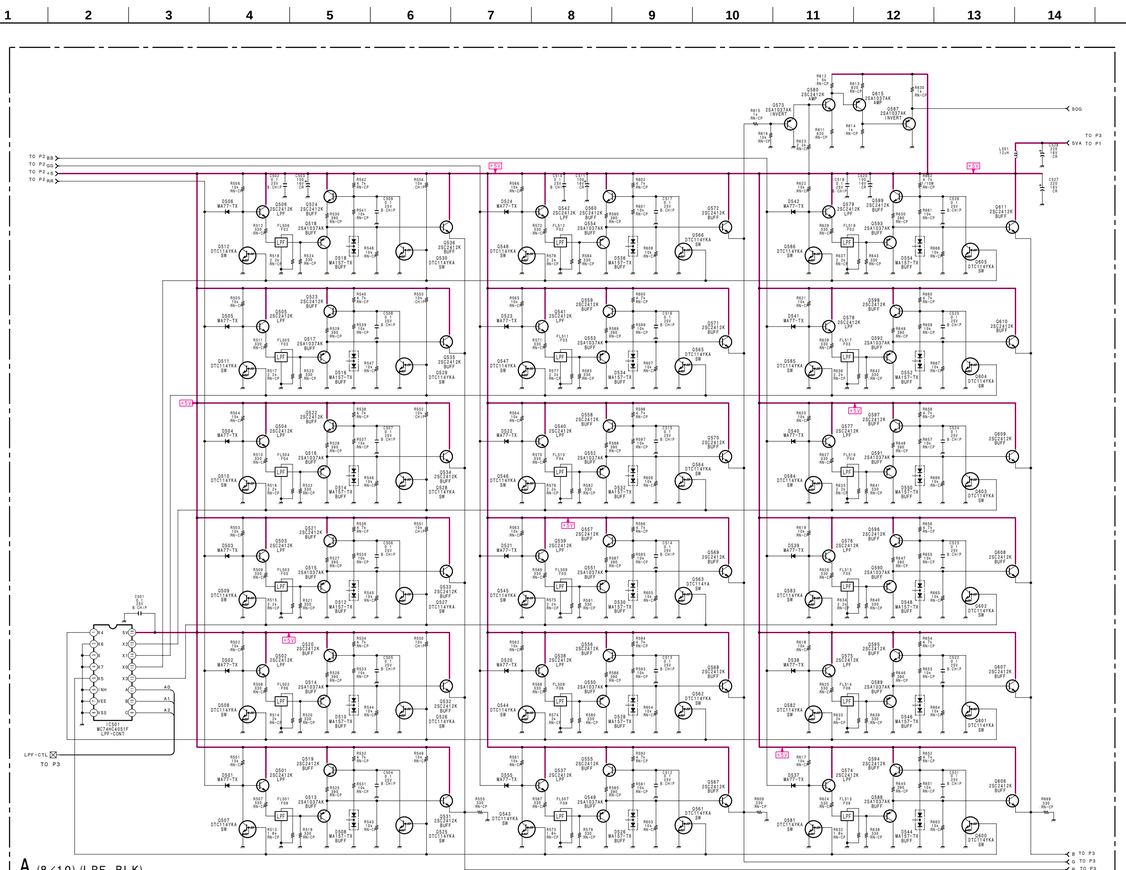

A (10/10) (GEN-LOCK)

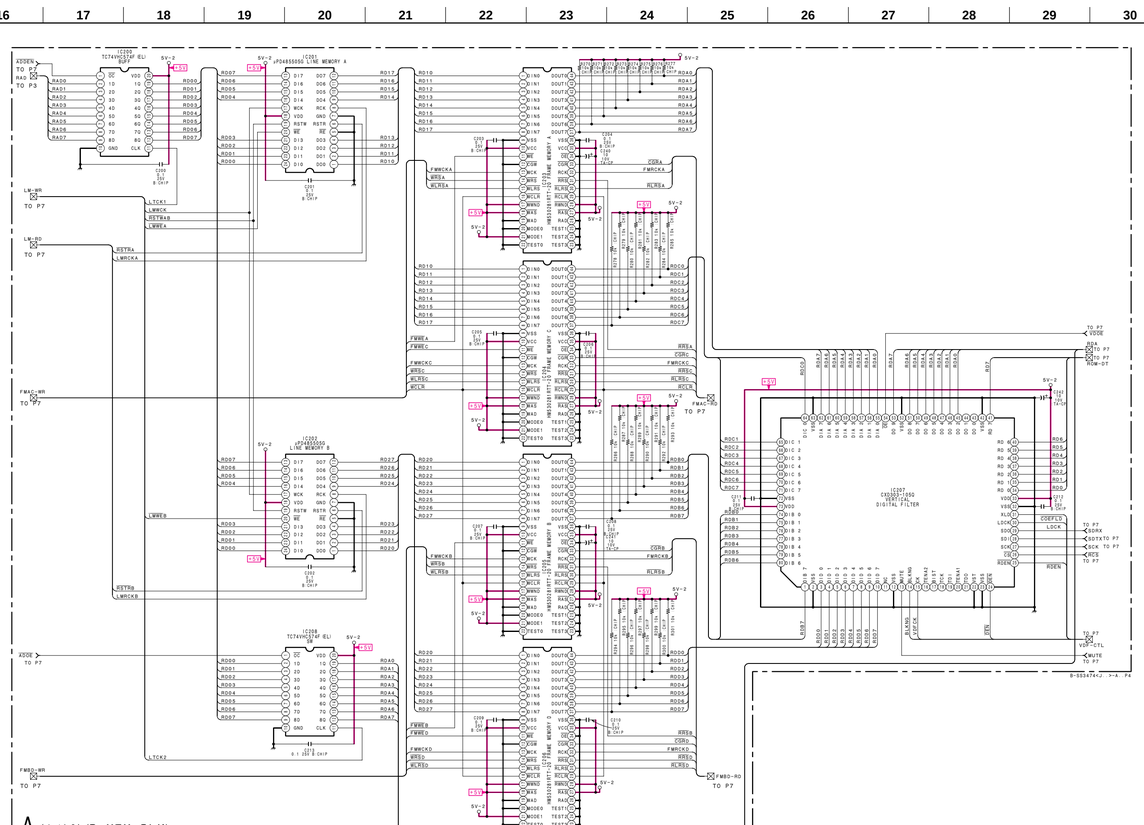
(3) A Board (LPF BLK : 8/10)

(5) A Board (R-MEM BLK : 4/10)

- A(8/10) BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]
IC501	1	1.2
	2	1.2
	3	0
	4	4.6
	10	0
	11	1.2
	12	1.2
	13	1.2
	14	0
	15	4.9
	16	
Q501	B	0
	C	5.0
	E	0
Q502	B	0
	C	4.9
	E	0
Q503	B	0
	C	4.9
	E	0
Q504	B	2.6
	C	4.9
	E	1.9
Q505	B	0
	C	5.0
	E	0
Q506	B	0
	C	5.0
	E	0
Q507	B	1.2
	C	0
	E	0
Q508	B	1.2
	C	0
	E	0
Q509	B	1.2
	C	0
	E	0
Q510	B	0
	C	0
	E	2.6
Q511	B	1.2
	C	0
	E	0
Q512	B	1.2
	C	0
	E	0
Q513	B	0
	C	0
	E	0
Q514	B	0
	C	0
	E	0
Q515	B	0
	C	0
	E	0
Q516	B	0.9
	C	0
	E	1.6
Q517	B	0
	C	0
	E	
Q518	B	0
	C	0
	E	0
Q519	B	0
	C	5.0
	E	0
Q520	B	0
	C	5.0
	E	0
Q521	B	0
	C	5.0
	E	0
Q522	B	3.7
	C	5.0
	E	3.0
Q523	B	0
	C	5.0
	E	0
Q524	B	0
	C	5.0
	E	0
Q525	B	1.2
	C	0
	E	0
Q526	B	1.2
	C	0
	E	0
Q527	E	1.2
	C	0.1
	E	0
Q528	B	0
	C	3.7
	E	0
Q529	B	1.2
	C	0.1
	E	0
Q530	B	1.2
	C	0
	E	0
Q531	B	0
	C	4.9
	E	0.9
Q532	B	0
	C	5.0
	E	0.9
Q533	B	0
	C	4.9
	E	0.9
Q534	B	1.5
	C	5.0
	E	0.9
Q535	B	0
	C	4.9
	E	0.9
Q536	B	0
	C	4.9
Q537	E	0.9
	C	0
	B	4.9
Q538	B	0
	C	5.0
	E	0
Q539	B	0
	C	5.0
	E	0
Q540	B	2.7
	C	4.9
	E	2.1
Q541	B	0
	C	5.0
	E	0
Q542	B	0
	C	5.0
	E	0
Q543	B	1.2
	C	0
	E	0
Q544	B	1.2
	C	0
	E	0
Q545	B	1.2
	C	0
	E	0
Q546	B	0
	C	5.0
	E	0
Q547	B	1.2
	C	0
	E	0
Q548	B	1.2
	C	0
	E	0
Q549	B	0
	C	0
	E	0
Q550	B	0
	C	0
	E	0
Q551	B	0
	C	0
	E	0
Q552	B	1.0
	C	0
	E	1.6
Q553	B	0
	C	0
	E	0
Q554	B	0
	C	0
	E	0
Q555	B	0
	C	0.1
	E	5.0
Q556	B	0
	C	5.0
	E	0
Q557	B	0
	C	5.0
	E	0
Q558	B	3.7
	C	5.0
	E	3.0
Q559	B	0
	C	5.0
	E	0
Q560	B	0.1
	C	5.0
	E	0
Q561	B	1.2
	C	0
	E	0
Q562	B	1.2
	C	0
	E	0
Q563	B	1.2
	C	0
	E	0
Q564	B	0
	C	3.7
	E	0
Q565	B	1.2
	C	0
	E	
Q566	B	1.2
	C	0
	E	0
Q567	B	0
	C	5.0
	E	1.0
Q568	B	0
	C	5.0
	E	1.0
Q569	B	0
	C	5.0
	E	1.0
Q570	B	1.6
	C	5.0
	E	1.0
Q571	B	0
	C	5.0
	E	1.0
Q572	B	0
	C	5.0
	E	1.0
Q573	B	0.9
	C	0
	E	1.5
Q574	B	0
	C	5.0
	E	0
Q575	B	0
	C	5.0
	E	0
Q576	B	0
	C	5.0
	E	0
Q577	B	2.6
	C	5.0
	E	1.9
Q578	B	0
	C	5.0
	E	0
Q579	B	0
	C	5.0
	E	0
Q580	B	1.5
	C	2.8
	E	0.9
Q581	B	1.2
	C	0
	E	0
Q582	B	1.2
	C	0
	E	0
Q583	B	1.2
	C	0
	E	0
Q584	B	0
	C	2.6
	E	0
Q585	B	1.2
	C	0
	E	0
Q586	B	1.2
	C	0
	E	0
Q587	B	1.9
	C	0
	E	2.5
Q588	B	0
	C	0
	E	0
Q589	B	0
	C	0
	E	0
Q590	B	0
	C	0
	E	0
Q591	B	0.9
	C	0
	E	1.5
Q592	B	0
	C	0
	E	0
Q593	B	0
	C	0
	E	0
Q594	B	0.1
	C	5.0
	E	0
Q595	B	0
	C	5.0
	E	0
Q596	B	0
	C	5.0
	E	0
Q597	B	3.7
	C	5.0
	E	3.0
Q598	B	0.1
	C	5.0
	E	0
Q599	B	0.1
	C	5.0
	E	0
Q600	B	1.2
	C	0
	E	0
Q601	B	1.2
	C	0
	E	0
Q602	B	1.2
	C	0
	E	0
Q603	B	0
	C	3.7
	E	0
Q604	B	1.2
	C	0
	E	0
Q605	B	1.2
	C	0
	E	0
Q606	B	0
	C	5.0
	E	0.9
Q607	B	0
	C	5.0
	E	0.9
Q608	B	0
	C	5.0
	E	0.9
Q609	B	1.5
	C	5.0
	E	0.9
Q610	B	0
	C	5.0
	E	0.9
Q611	B	0
	C	5.0
	E	0.9
Q615	B	2.8
	C	1.9
	E	3.5

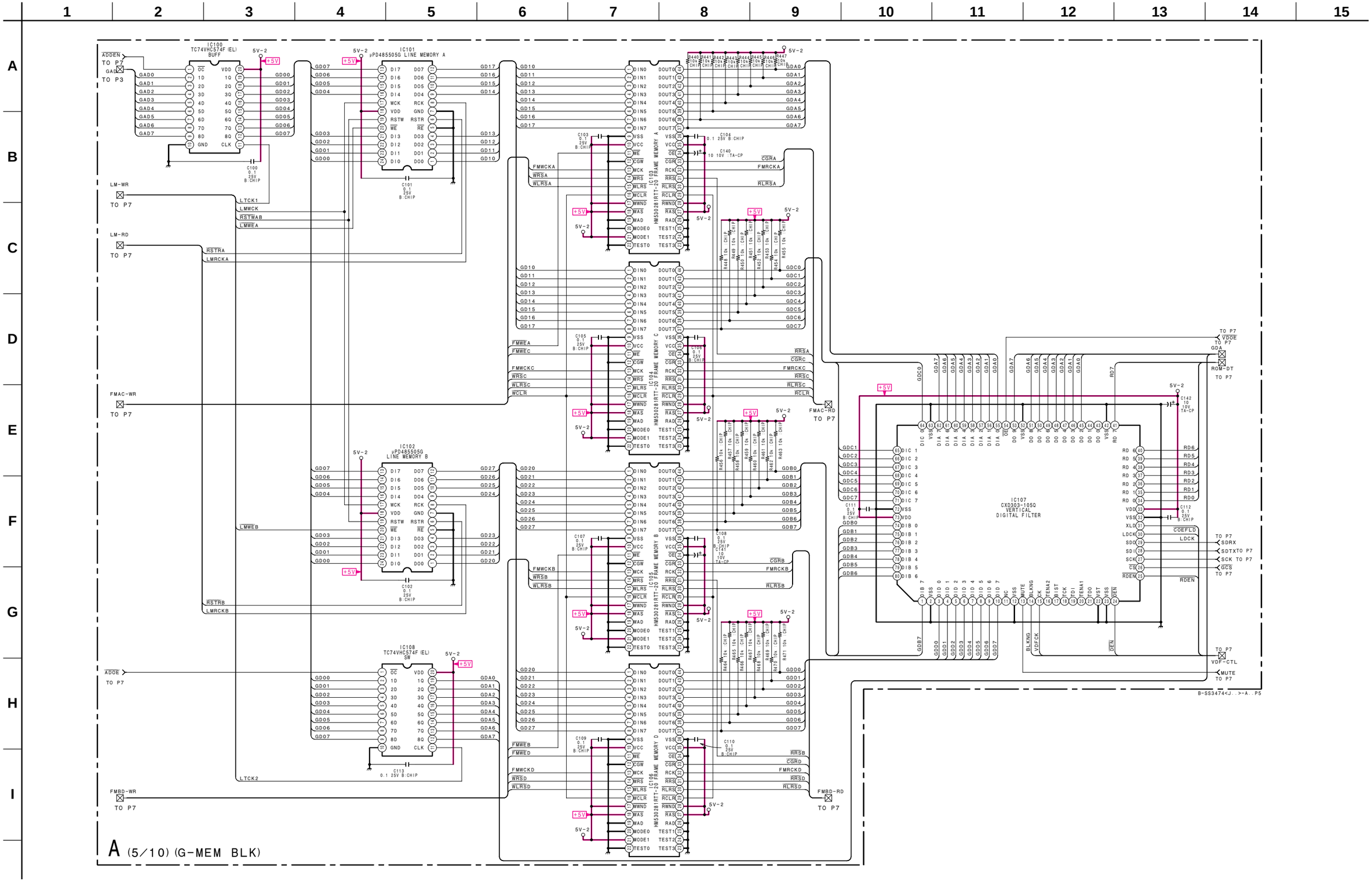




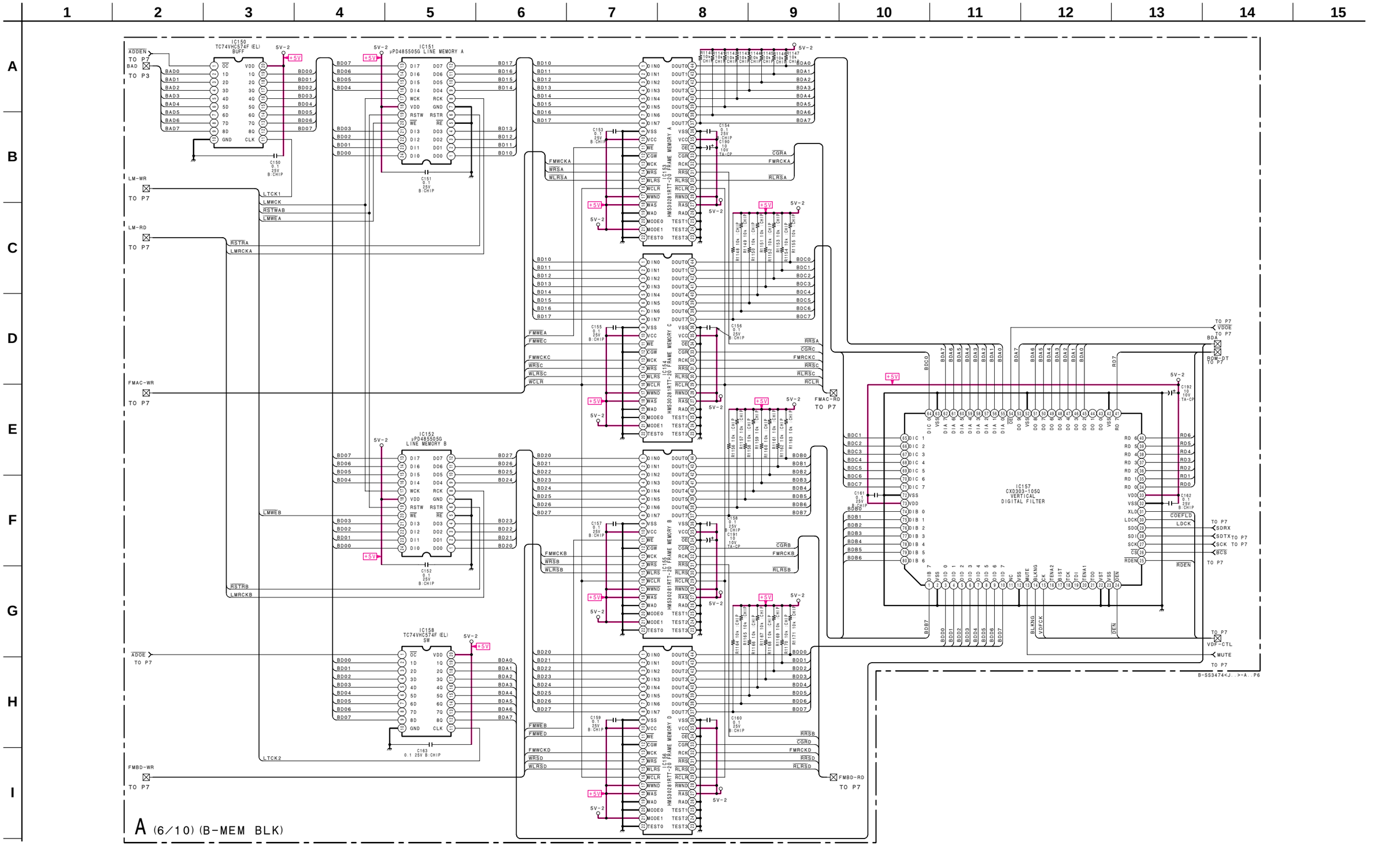
Schematic diagram
← A board (10/10)

Schematic diagrams
A board (4/10) A board (8/10) →

(6) A Board (G-MEM BLK : 5/10)



(7) A Board (B-MEM BLK : 6/10)

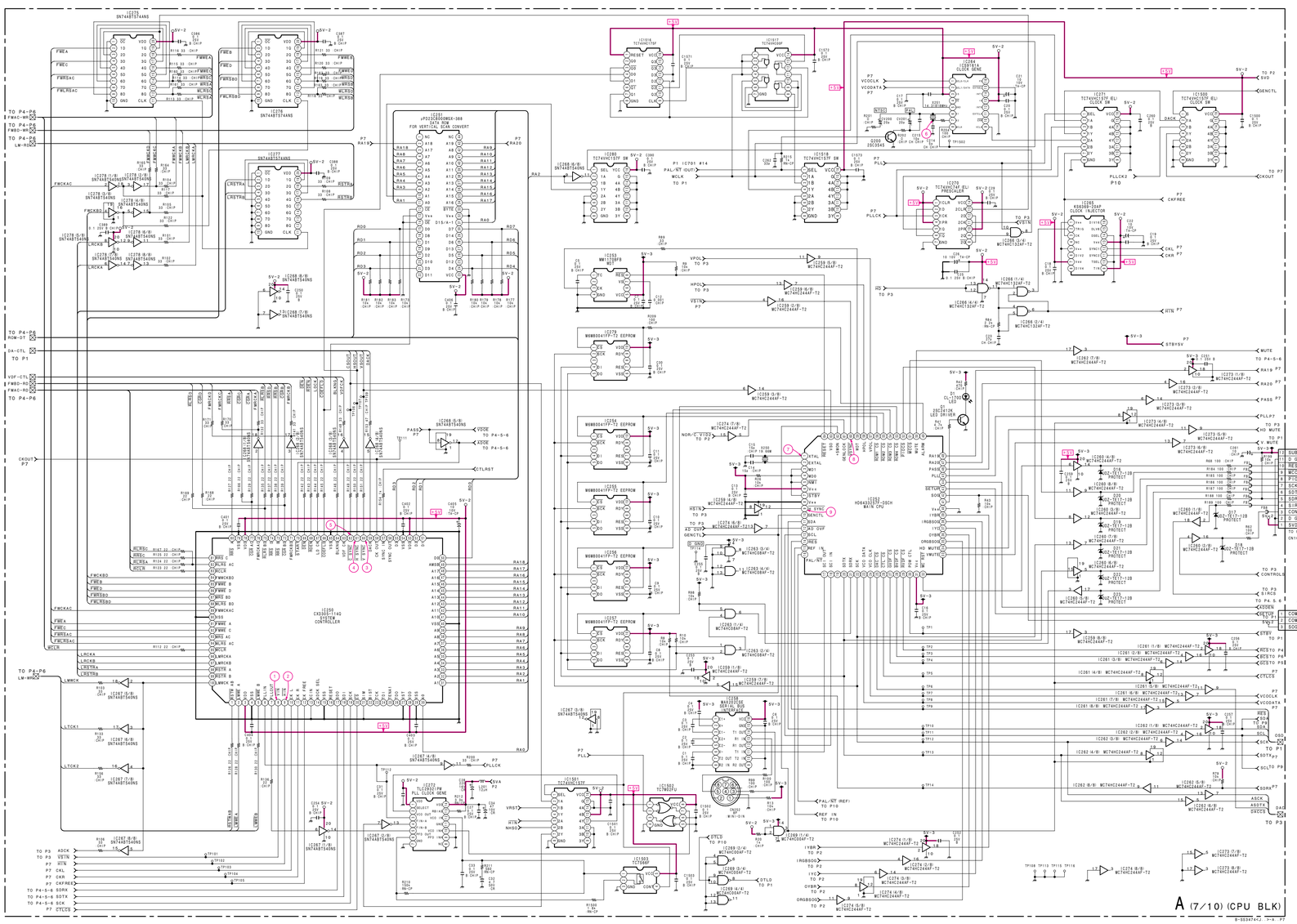


Schematic diagram
← A board (5/10)

Schematic diagram
A board (6/10) →

• A(7/10) BOARD WAVEFORMS

① 4.5 Vp-p (V)	② 4.5 Vp-p (H)	③ 4.5 Vp-p (V)	④ 4.5 Vp-p (H)	⑤ 4.5 Vp-p (H)
⑥ 2.0 Vp-p (14.31818MHz)	⑦ 2.0 Vp-p (19.66MHz)	⑧ 5.0 Vp-p (V)	⑨ 3.0 Vp-p (H)	



H1 CONTROL SW SIGNAL LAMP SIRCS

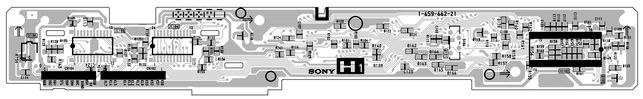
K2 VIDEO INTER FACE VIDEO IN OUT

(12) H1 Board (CONTROL SW, SIGNAL LAMP, SIRCS)

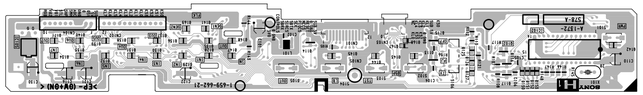
• H1 BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC102	1	5.0	IC104	1	0.2
	2	4.9		2	5.0
	3	4.9		3	5.0
	4	4.9		4	5.0
	5	4.9		5	5.0
	6	4.8		7	5.0
	7	4.9		8	5.0
	8	4.9		9	0.2
	9	4.9		10	5.0
	10	4.9		11	5.0
	11	4.9		12	0.2
	12	5.0		13	5.0
	13	5.0		14	5.0
	15	0.1		15	5.0
	19	4.1		16	5.0
	20	4		17	5.0
	21	4		19	0
	22	4.1		20	5.0
	23	5.0		21	5.0
	24	0		22	5.0
	25	5.0		23	5.0
	26	2.2		24	5.0
	27	2.0			
	28	5.0	IC105	1	5.0
				2	5.0
IC103	1	5.0	Q101	B	0
	2	5.0		C	5.0
	3	0		E	0
	4	0			
	5	5.0	Q102	B	0.1
	7	0.1		C	0
	8	5.0		E	4.9
	9	0.1			
	11	5.0	Q103	B	5.0
	13	0.1		C	0
	14	5.0		E	0
	15	5.0			
	16	5.0			
	17	5.0			

— H1 BOARD (Conductor side) —



— H1 BOARD (Component side) —



H1 BOARD
Terminal name of semiconductors in silk screen printed circuit (✻)

Ref.	✻
Q101, Q103	①
Q102	②
D113–D117	⑦
D118, D119	⑥
D120–D145, D147–D171	③

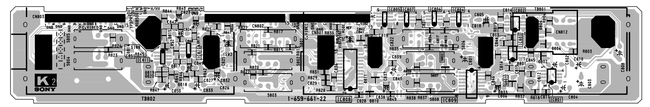
✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-11)

(15) K2 Board (VIDEO IN/OUT, VIDEO INTER FACE)

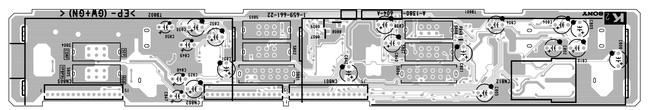
• K2 BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC801	1	1.4		5	0
	2	0		6	0
	3	1.5		7	5.0
	4	5.0	IC806	1	0
	5	1.4		2	0
	6	5.0		3	5.0
	7	1.2		5	5.0
IC802	1	1.4		6	4.8
	2	0		7	4.9
	3	1.5	IC807	1	0
	4	5.0		2	0
	5	1.4		3	5.0
	6	5.0		5	0
	7	1.2		6	0
IC803	1	2.8		7	5.0
	2	0	IC808	1	3.6
	3	2.8		2	0.1
	4	4.9		3	3.6
	5	2.8		5	3.6
	6	5.0		7	0
	7	2.0		9	0
IC804	1	0		11	0
	2	0		14	0
	3	5.0		15	2.1
	5	0		16	4.8
	6	0		17	0
	7	5.0		18	2.5
IC805	1	0		19	2.1
	2	5.0		20	5.0
	3	0		21	2.1
				22	0

— K2 BOARD (Condutor side) —



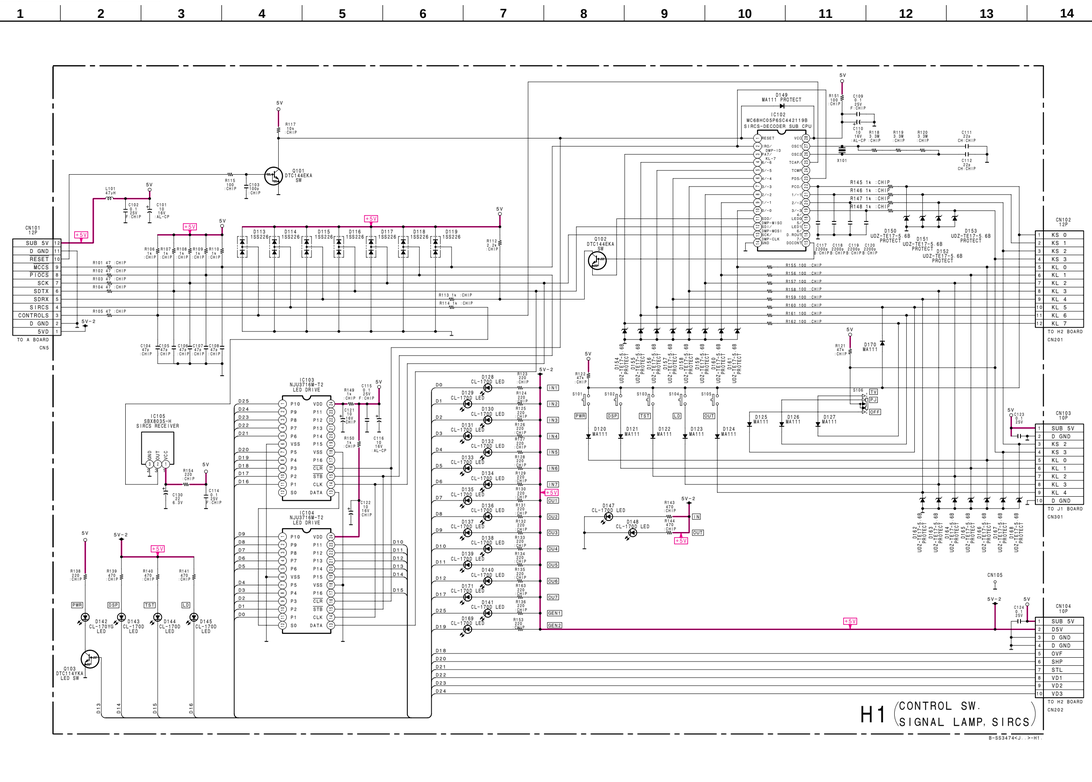
— K2 BOARD (Component side) —

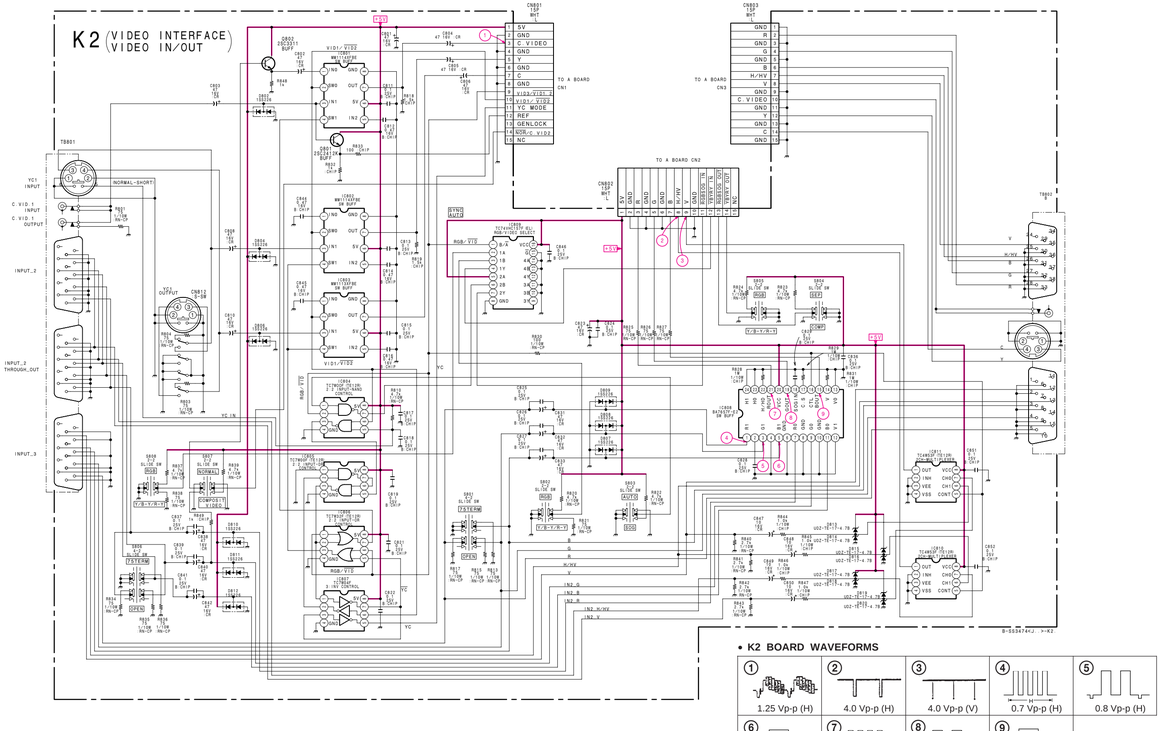


• K2 BOARD SEMICONDUCTOR LOCATION

Ref.	✻
Q801, Q802	①
D802, D804, D806 D810–D812	⑥
D813–D820	③
D807–D809	⑦

✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-11)



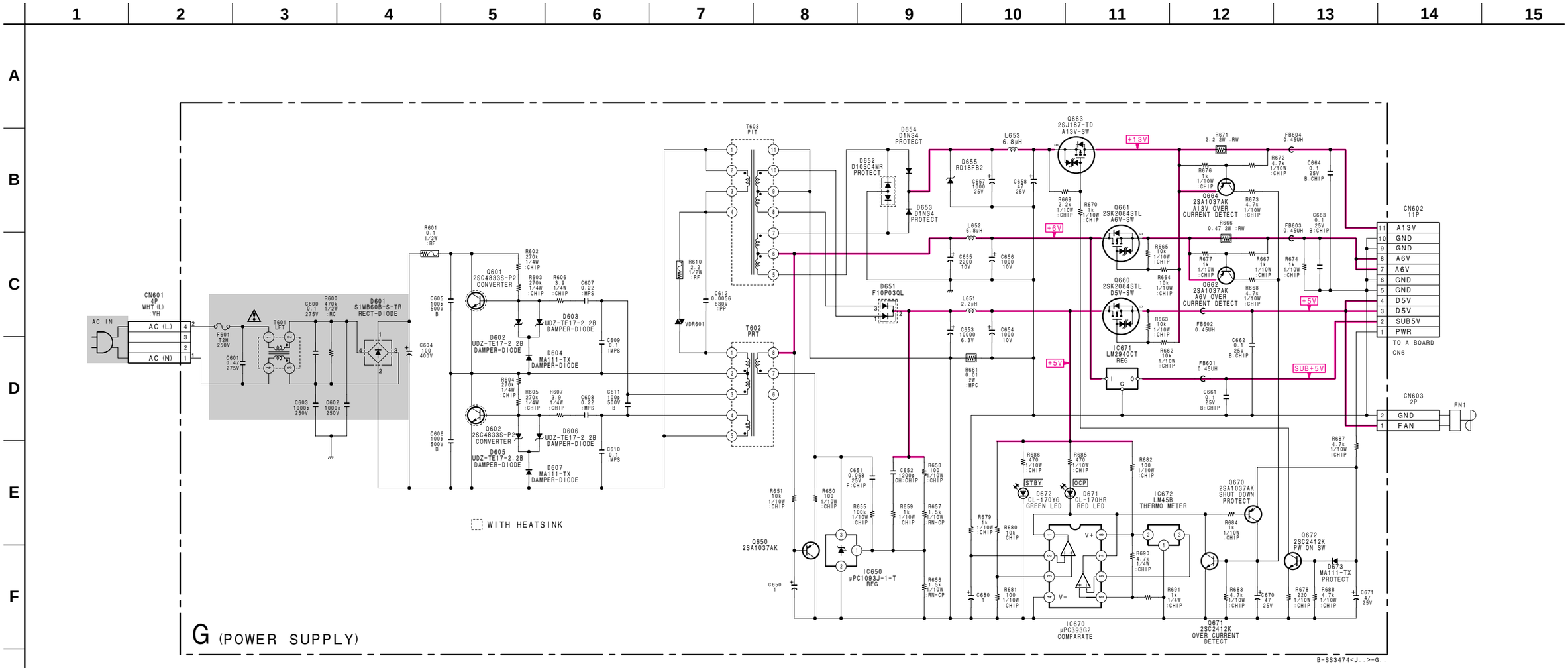


• K2 BOARD WAVEFORMS

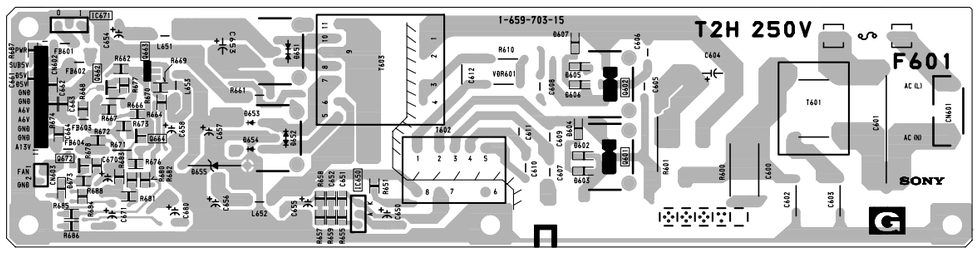
① 1.25 Vp-p (H)	② 4.0 Vp-p (H)	③ 4.0 Vp-p (V)	④ 0.7 Vp-p (H)	⑤ 0.8 Vp-p (H)
⑥ 0.7 Vp-p (H)	⑦ 0.7 Vp-p (H)	⑧ 0.8 Vp-p (H)	⑨ 0.7 Vp-p (H)	

Schematic diagram ← A board (7/10)

Schematic diagrams H1 K2 boards →



— G BOARD (Conductor Side) —

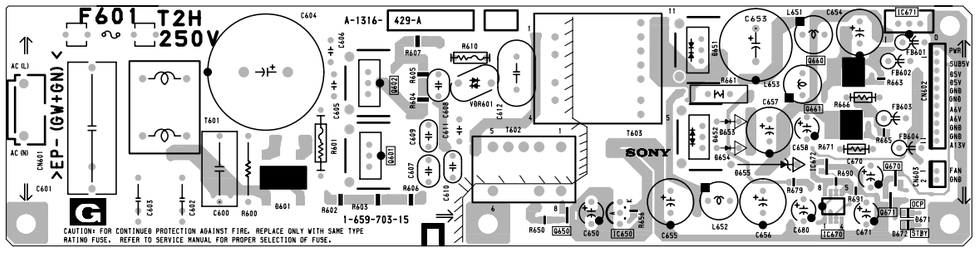


G BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
Q650, Q670, Q671	②
Q660, Q661, Q663	①
Q662, Q664, Q672	①
D602–D607, D671–D673	③

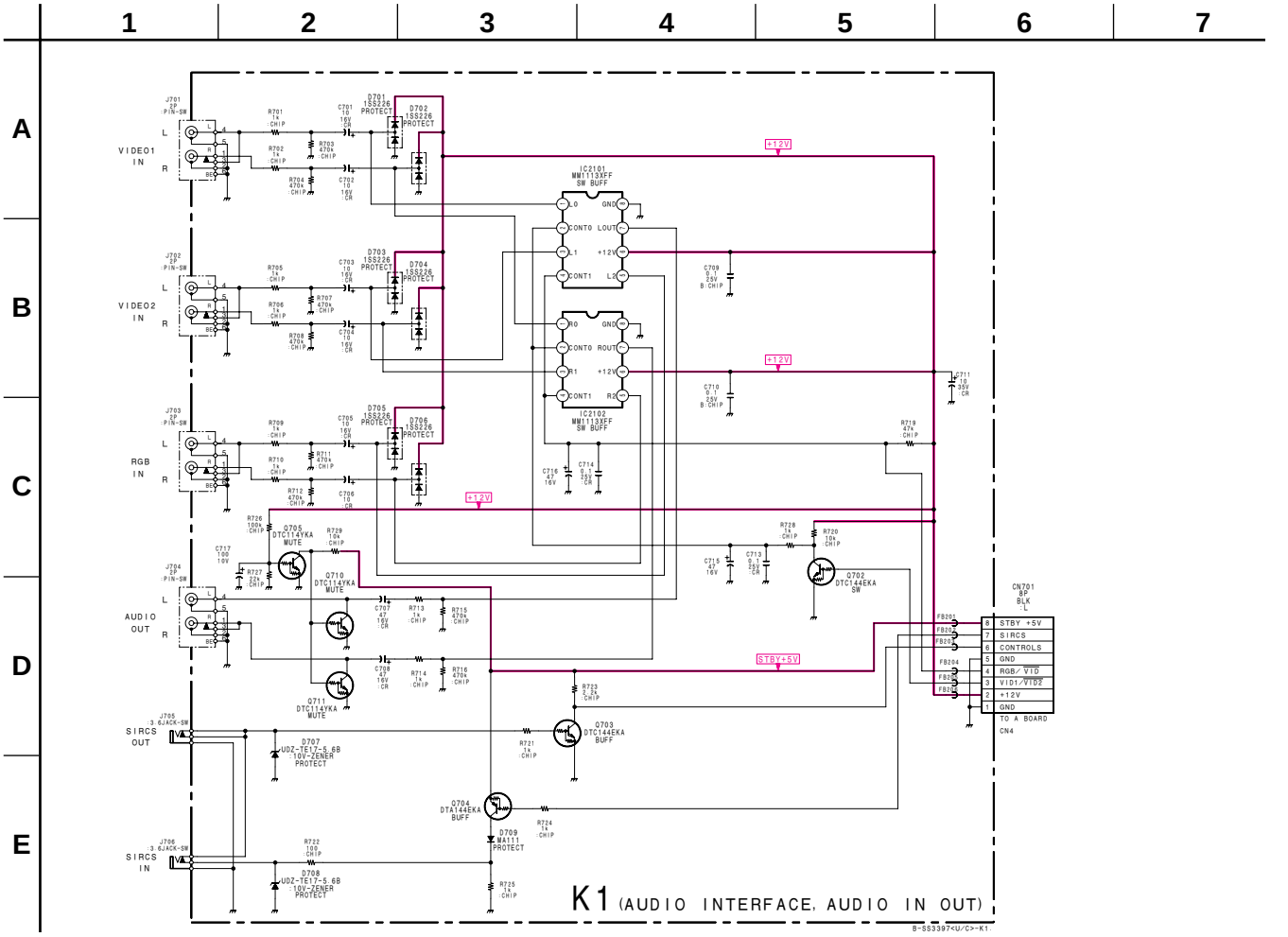
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-11)

— G BOARD (Component Side) —


F601 T2H 250V
A-1316- 429-A
1-659-703-15
CAUTION• FOR CONTINUED PROTECTION AGAINST FIRE, REPLACE ONLY WITH SAME TYPE RATING FUSE. REFER TO SERVICE MANUAL FOR PROPER SELECTION OF FUSE.
SONY

(14) K1 Board (AUDIO IN/OUT, AUDIO INTER FACE)

K1 AUDIO INTER FACE
AUDIO IN/OUT

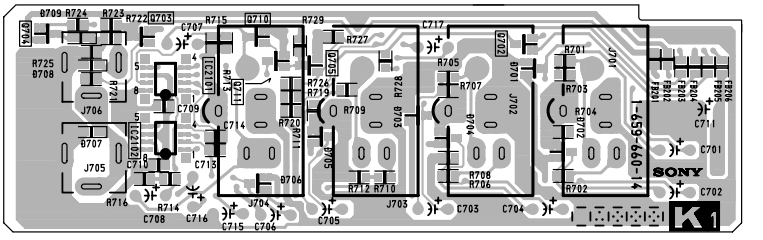


• K1 BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]
IC2101	1	6.7
	2	0
	3	6.7
	4	4.8
	5	6.7
	7	6.0
IC2102	1	6.7
	2	0
	3	6.7
	4	4.8
	5	6.7
	7	6.0
Q702	B	0
	C	0
	E	0

Ref.	Pin No.	Voltage [V]
Q703	B	0
	C	5.0
	E	0
Q704	B	5.0
	C	-0.1
Q705	B	0
	C	-0.4
	E	0
Q710	B	0.8
	C	0.8
	E	0
Q711	B	0.8
	C	0.8
	E	0.1

— K1 BOARD (Conductor Side) —

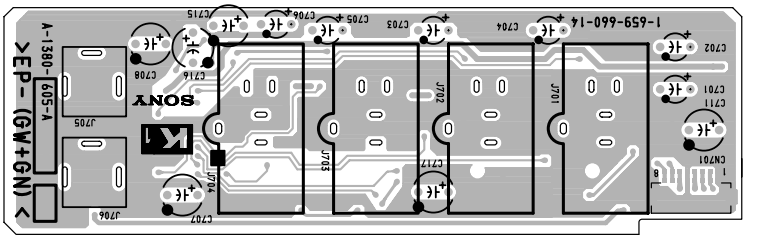


K1 BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
Q702– Q705, Q710, Q711	①
D701 –D706	⑥
D707 –D709	③

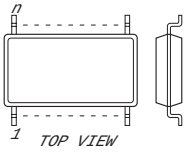
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-11)

— K1 BOARD (Component Side) —



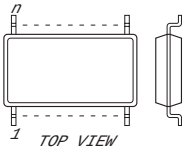
4-6. SEMICONDUCTORS

BA7046F
BA7046F-T1
CXA1211M
CXA1211M-T4
LM1881M
LM1881MX
LM358PS
LM358PS-E05
MM1113XFBE
MM1113XFF
MM1114XFF
MM1170BFB
MM1118XFF
NJM2267M
TC4W53F
TC4W53FU
TC7W00F
TC7W00FU
TC7W02FU
TC7W04F
TC7W32F
TC74VHC175FS
µPC393G2



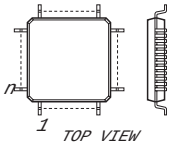
8 pin SOP

BA7657F-E2
CXA1645M
CXA1645M-T6
NJU3716M
SNY422-SONY
µPC659AGS-E2



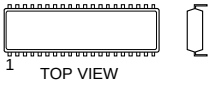
24 pin SOP

BT121KPJ80



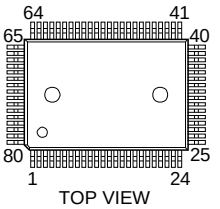
44 pin QFJ

CXA1779P

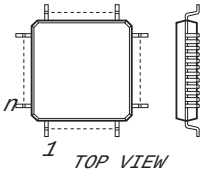


28 pin DIP

CXD2024AQ
CXD303-105Q

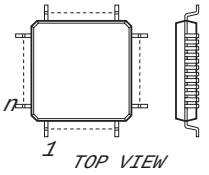


CXD2302Q
CXD2302Q-T4



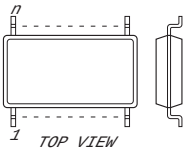
32 pin QFP

HD6433257F-DSCH



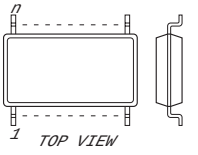
64 pin QFP

HM530281RTT-20
HM530281-20
µPC1830GT-E2
µPD23C8000WGX-38B-E2



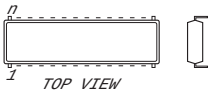
44 pin SOP

ICS9161A
MAX202CSE
MC74HC4051F
MC74HC4051F-T2
MC74HC4052F
MC74HC4052F-T2
MC74HC4053F
MC74HC4053F-T2
MC74HC4538F
MC74HC4538AF-T2
MC74HC4538AFEL
TC74AC157F-EL
TC74HC123AF
TC74HC153AF
TC74HC163AF
TC74VHC157F
TC74VHC157F(EL)
TC74VHC157FS
TC74VHC175F
TDA4665T-T



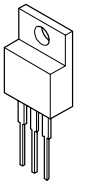
16 pin SOP

KS6369-20AP

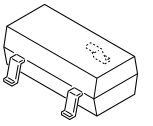


16 pin DIP

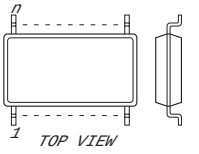
LM2940CT-5.0
LM2940CT-12
µPC24M12AHF
µPC2405HF



LM45BIM3X

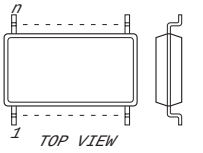


MC74HC244AF
MC74HC244AF-T2
M52036SP
M62352GP-75E
M62352GP-75EC
SN74ABT540NS-E05
SN74ABT574NS-E05
TC74VHC574F
TC74VHC574F(EL)



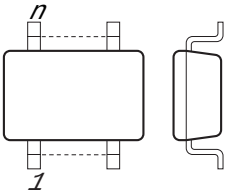
20 pin SOP

MC74HC00AF
MC74HC00AF-T2
MC74HC04AF
MC74HC04AF-T2
MC74HC08AF
MC74HC08AF-T2
MC74HC11F
MC74HC11F-T2
MC74HC132AF
MC74HC132AF-T2
MC74HC14AF
MC74HC14AF-T2
MC74HC30F
MC74HC30FEL
MC74HC4078F
MC74HC4078FEL
SN74HC14ANS
TC74VHC00F
TC74VHC74F
TLC2932IPW



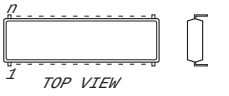
14 pin SOP

MM1031XML
MM1041XM



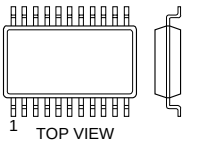
4 pin CHIP

M52036SP



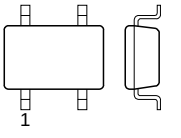
20 pin DIP

M6M80041FP
M6M80041FP-T2



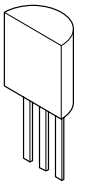
10 pin SOP

TC4S69F
TC7S66F

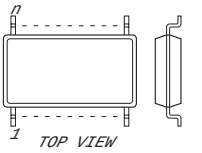


5 pin Chip

µPC1093J-1-T

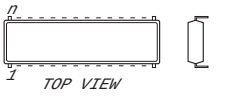


MC68HC05P6S442119B
µPD42280GU-30
µPD42280GU-30-E2



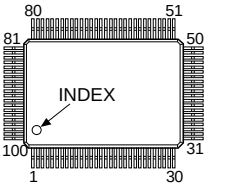
28 pin SOP

µPD485505G-25

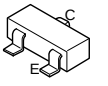


24 pin DIP

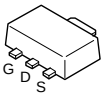
µPD6486GF-3BA
CXD305-114Q



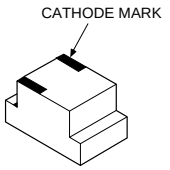
DTA114EKA-T146
DTA124EKA-T146
DTA144EKA-T146
DTC114YKA-T146
DTC124EK
DTC124EKA-T146
DTC144EKA
DTC144EKA-T146
2SA1037K-T146-QR
2SA1037AK-T-146-R
2SA1037AK-T-146-QR
2SA1162-G
2SC1623-L5L6
2SC2412K-T-146-Q
2SC2412K-T-146-S
2SC3545



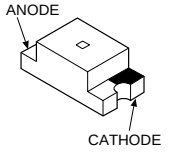
2SJ187



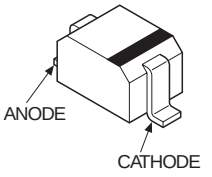
CL-170D-CD-T
CL-170YG-CD-T



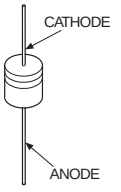
CL-170HR-CD-T



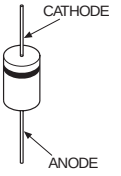
DTZ4.7C
MA111
RD12SB2
RD5.6S-B
UDZ-TE-17-12B
UDZ-TE-17-2.2B
UDZ-TE-17-4.7B
UDZ-TE-17-5.6B
1SS355
1SS355TE-17



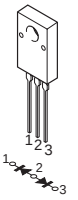
D1NS4



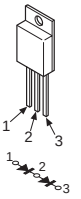
D1NS4-TR
RD2.2M-T1B
RD18FB2



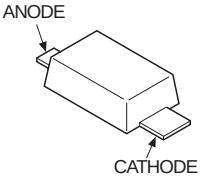
D10SC4MR



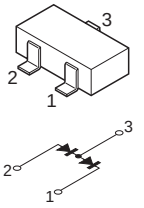
F10P03QL



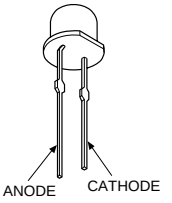
MA77



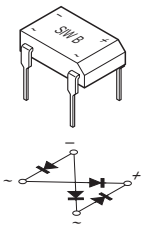
MA157
1SS226



SLR-33DC3F



S1WB60B-S-TR



SECTION 5
EXPLODED VIEWS

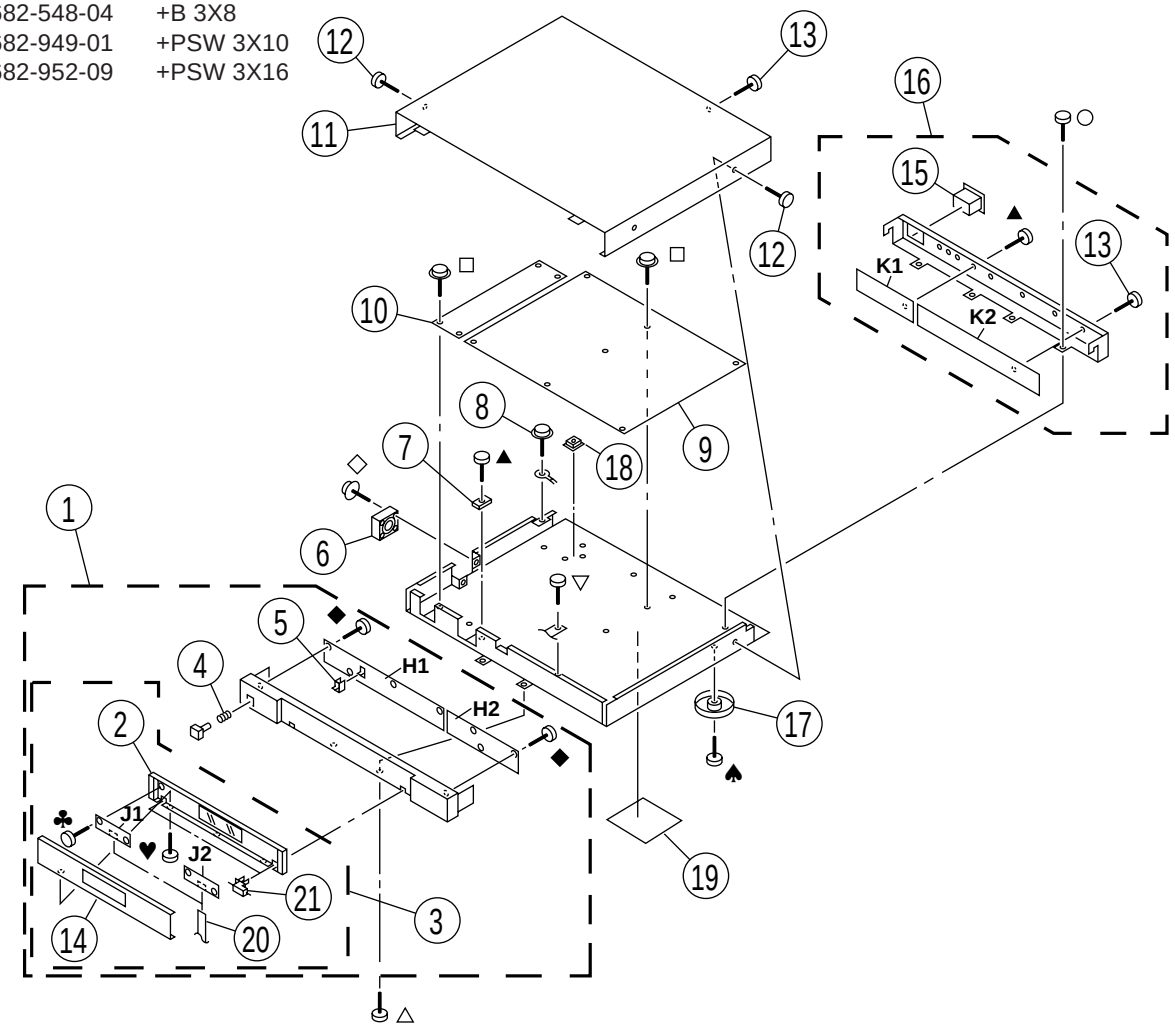
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

5-1. CHASSIS

◆	7-685-647-79	+BVTP 3X10	♠	7-685-872-09	+BVTT 3X8
▲	7-685-646-79	+BVTP 3X8	♣	7-685-232-19	+KTP 2.6X5
○	7-682-145-01	+P 3X4	♥	7-627-850-67	PRECISION SCREW +P 1.4X4
△	7-682-248-04	+K 3X8			
▽	7-682-548-04	+B 3X8			
□	7-682-949-01	+PSW 3X10			
◇	7-682-952-09	+PSW 3X16			

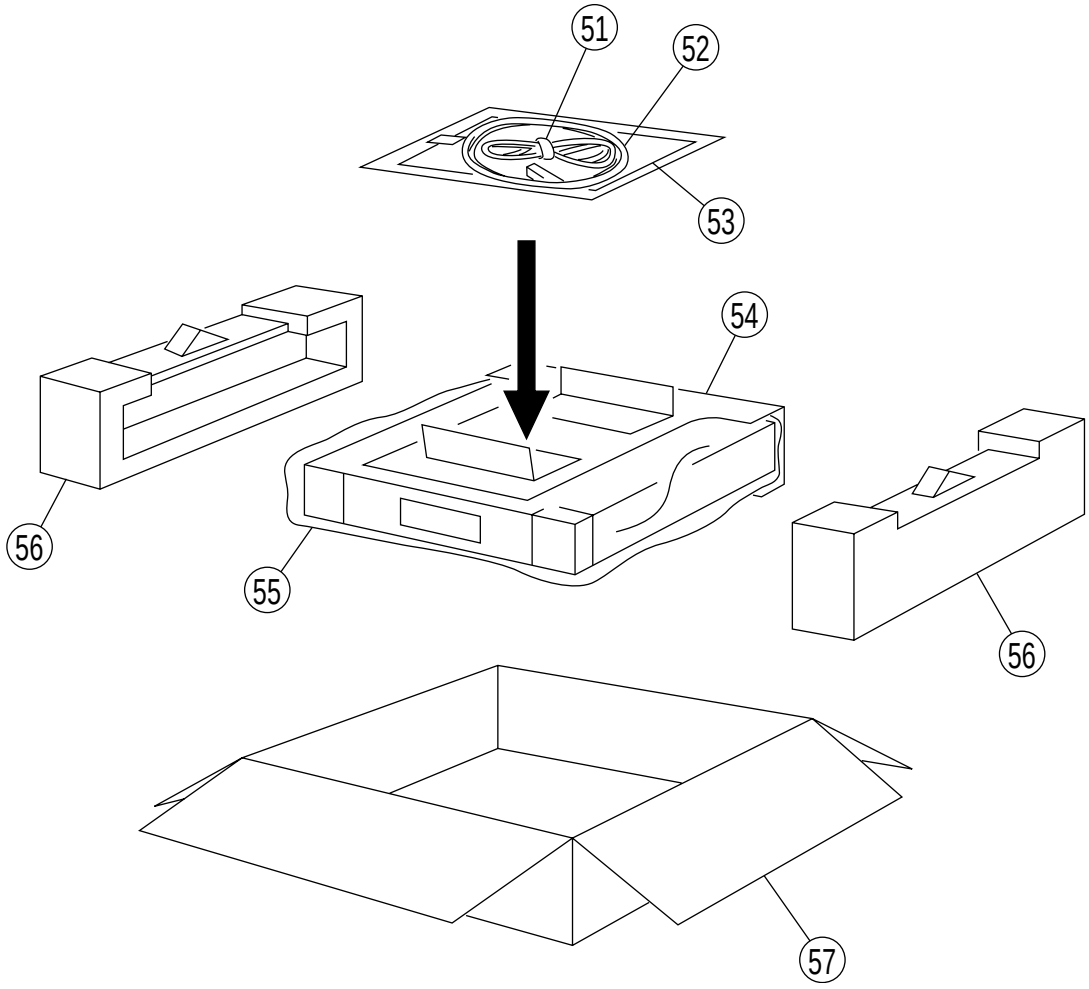


REF.NO.	PART NO.	DESCRIPTION	REMARK
1	* A-1484-206-A	FRONT BLOCK ASSY (H1/H2, J1/J2 BOARDS)	2-5, 14, 20, 21
2	X-4033-528-4	PANEL ASSY, DOOR	
3	* A-1484-207-A	DOOR BLOCK ASSY	2, 14, 20, 21
4	3-571-801-01	SPRING, COMPRESSION	
5	4-052-854-01	KNOB, SWITCH	
6	1-698-756-11	MOTOR, DC FAN	
7	* 4-053-463-01	HOLDER (S), CORE	
8	4-389-025-01	SCREW (M4) (EXT TOOTH WASHER)	
9	* A-1298-750-A	A BOARD, COMPLETE	
10	* A-1316-429-A	G BOARD, COMPLETE	
11	* 4-052-863-01	COVER, TOP	
12	4-847-802-11	SCREW, CASE STOPPER	
13	3-703-685-21	SCREW (+BV 3X8)	
14	4-052-862-04	DOOR	
15	⚠ 1-251-050-21	INLET, AC	
16	* A-1429-617-A	PANEL ASSY (K1/K2 BOARDS)	13, 15
17	X-3727-799-1	FOOT ASSY	
18	* 4-053-464-01	HOLDER (T), CORE	
19	* 4-053-324-21	LABEL, INFORMATION	
20	1-900-219-39	FPC ASSY (FLEXIBLE)	
21	4-045-250-01	DAMPER	

5-2. PACKING MATERIALS

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK
51	⚠ 1-534-827-14	CORD, POWER (10A/125V)	
52	1-590-226-11	CABLE (SMF-400)	
53	3-865-517-01	MANUAL, INSTRUCTION	
54	* 4-052-714-01	PARTITION	
55	* 3-704-295-01	BAG (STANDARD), PROTECTION	
56	* 4-052-715-01	CUSHION	
57	* 4-067-568-01	INDIVIDUAL CARTON	

MEMO

SECTION 6
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- CAPACITORS
  MF : µF
- COIL
  UH : µH
  MMH : mH

REF.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1298-750-A	A BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+) (IC712, IC713, IC714)			
		<CAPACITOR>			
C1	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C3	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C4	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C5	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C6	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C7	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C8	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C9	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C10	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C11	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C12	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	
C13	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C14	1-163-231-11	CERAMIC CHIP 15PF	5%	50V	
C15	1-163-231-11	CERAMIC CHIP 15PF	5%	50V	
C16	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C17	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C18	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C19	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C20	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C21	1-135-216-11	TANTAL. CHIP 10MF	20%	10V	
C22	1-135-216-11	TANTAL. CHIP 10MF	20%	10V	
C23	1-163-237-11	CERAMIC CHIP 27PF	5%	50V	
C25	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C26	1-135-216-11	TANTAL. CHIP 10MF	20%	10V	
C27	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C28	1-126-934-11	ELECT 220MF	20%	16V	
C29	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C30	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C31	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C32	1-126-963-11	ELECT 4.7MF	20%	50V	
C33	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C34	1-104-664-11	ELECT 47MF	20%	10V	
C100	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C101	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C102	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C103	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C104	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C105	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C106	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C107	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C108	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C109	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C110	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C111	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C112	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C113	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C140	1-135-216-11	TANTAL. CHIP 10MF	20%	10V	
C141	1-135-216-11	TANTAL. CHIP 10MF	20%	10V	
C142	1-135-216-11	TANTAL. CHIP 10MF	20%	10V	
C150	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C151	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C152	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C153	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C154	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C155	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C156	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C157	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C158	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C159	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C160	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C161	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C162	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C163	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C190	1-135-216-11	TANTAL. CHIP 10MF	20%	10V	
C191	1-135-216-11	TANTAL. CHIP 10MF	20%	10V	
C192	1-135-216-11	TANTAL. CHIP 10MF	20%	10V	
C200	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C201	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C202	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C203	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C204	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C205	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C206	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C207	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C208	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C209	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C210	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C211	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	

A

REF.NO.	PART NO.	DESCRIPTION			REMARK
C212	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C213	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C214	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C215	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C240	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C241	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C242	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C250	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C251	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C252	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C253	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C254	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C255	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C256	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C257	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C259	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C260	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C261	1-126-964-11	ELECT	10MF	20%	50V
C262	1-102-963-00	CERAMIC	33PF	5%	50V
C317	1-107-701-11	ELECT	47MF	20%	16V
C318	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C319	1-107-701-11	ELECT	47MF	20%	16V
C320	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C321	1-107-701-11	ELECT	47MF	20%	16V
C322	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C323	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C329	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C330	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C331	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C332	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C333	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C335	1-126-960-11	ELECT	1MF	20%	50V
C336	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C337	1-126-960-11	ELECT	1MF	20%	50V
C338	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C339	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C340	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C341	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C342	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C343	1-104-664-11	ELECT	47MF	20%	16V
C344	1-104-664-11	ELECT	47MF	20%	16V
C345	1-104-664-11	ELECT	47MF	20%	16V
C346	1-126-961-11	ELECT	2.2MF	20%	50V
C347	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C348	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C349	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C350	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C351	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C352	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C353	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C354	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C355	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C356	1-126-934-11	ELECT	220MF	20%	16V
C357	1-126-960-11	ELECT	1MF	20%	50V
C358	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C359	1-126-963-11	ELECT	4.7MF	20%	50V
C360	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C361	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C362	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C363	1-126-956-91	ELECT	0.1MF	20%	50V
C364	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C365	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C366	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C367	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C368	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C369	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C370	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C371	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C372	1-126-965-11	ELECT	22MF	20%	50V
C374	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C378	1-107-716-11	ELECT	33MF	20%	16V
C379	1-107-716-11	ELECT	33MF	20%	16V
C380	1-107-716-11	ELECT	33MF	20%	16V
C381	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C382	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C383	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C384	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C385	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C386	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C387	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C388	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C389	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C390	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C391	1-126-963-11	ELECT	4.7MF	20%	50V
C392	1-126-964-11	ELECT	10MF	20%	50V
C393	1-126-933-11	ELECT	100MF	20%	16V
C394	1-126-960-11	ELECT	1MF	20%	50V
C395	1-126-960-11	ELECT	1MF	20%	50V
C396	1-126-964-11	ELECT	10MF	20%	50V
C401	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C402	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C403	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C404	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C405	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C406	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C501	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C502	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C503	1-126-933-11	ELECT	100MF	20%	16V
C504	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C505	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C506	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C507	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C508	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C509	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C510	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C511	1-126-933-11	ELECT	100MF	20%	16V
C512	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C513	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C514	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C515	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C516	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C517	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C518	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C520	1-126-933-11	ELECT 100MF	20% 16V
C521	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C522	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C523	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C524	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C525	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C526	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C527	1-126-934-11	ELECT 220MF	20% 16V
C528	1-126-934-11	ELECT 220MF	20% 16V
C529	1-126-934-11	ELECT 220MF	20% 16V
C530	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C531	1-104-664-11	ELECT 47MF	20% 25V
C532	1-104-664-11	ELECT 47MF	20% 25V
C533	1-126-960-11	ELECT 1MF	20% 50V
C534	1-164-344-11	CERAMIC CHIP 0.068MF	10% 25V
C535	1-126-964-11	ELECT 10MF	20% 50V
C536	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C538	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C539	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C540	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C541	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C542	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C543	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C544	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C545	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C546	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C547	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C548	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C549	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C550	1-126-934-11	ELECT 220MF	20% 16V
C551	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C552	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C553	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C555	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C556	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C557	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C558	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C559	1-104-664-11	ELECT 47MF	20% 25V
C561	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C562	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C563	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C564	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C565	1-126-963-11	ELECT 4.7MF	20% 50V
C566	1-109-889-11	ELECT 1MF	20% 50V
C567	1-163-253-11	CERAMIC CHIP 120PF	5% 50V
C568	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C569	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C570	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C571	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C572	1-126-934-11	ELECT 220MF	20% 16V
C573	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C574	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C600	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C601	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C602	1-104-664-11	ELECT 47MF	20% 25V
C603	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C604	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C605	1-104-664-11	ELECT 47MF	20% 25V
C606	1-104-664-11	ELECT 47MF	20% 25V
C607	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C608	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C609	1-104-664-11	ELECT 47MF	20% 16V
C610	1-104-664-11	ELECT 47MF	20% 16V
C611	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C612	1-104-664-11	ELECT 47MF	20% 16V
C613	1-104-664-11	ELECT 47MF	20% 16V
C614	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C615	1-104-664-11	ELECT 47MF	20% 16V
C616	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C617	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C618	1-163-257-11	CERAMIC CHIP 180PF	5% 50V
C619	1-163-257-11	CERAMIC CHIP 180PF	5% 50V
C701	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C702	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C703	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C704	1-126-934-11	ELECT 220MF	20% 16V
C705	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C707	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C708	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C709	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C710	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C711	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C712	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C713	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C714	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C715	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C716	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C717	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C718	1-126-934-11	ELECT 220MF	20% 16V
C720	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C721	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C722	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C723	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C724	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C725	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C726	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C727	1-126-933-11	ELECT 100MF	20% 16V
C728	1-104-653-11	ELECT 220MF	20% 16V
C729	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C730	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C731	1-126-934-11	ELECT 220MF	20% 16V
C732	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C733	1-126-934-11	ELECT 220MF	20% 16V
C734	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C735	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C736	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C737	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C738	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C739	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C740	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C741	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C742	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C743	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C744	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C745	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C746	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C747	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C748	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C749	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C750	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C751	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C752	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C753	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C754	1-126-933-11	ELECT 100MF	20% 16V
C755	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C756	1-128-526-11	ELECT 100MF	20% 16V
C757	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C758	1-163-257-11	CERAMIC CHIP 180PF	5% 50V
C759	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C761	1-126-933-11	ELECT 100MF	20% 16V
C762	1-126-933-11	ELECT 100MF	20% 16V
C763	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C764	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C765	1-126-934-11	ELECT 220MF	20% 16V
C766	1-163-222-11	CERAMIC CHIP 5PF	0.25PF 50V
C767	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C768	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C769	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C770	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C771	1-126-933-11	ELECT 100MF	20% 16V
C772	1-126-933-11	ELECT 100MF	20% 16V
C773	1-126-933-11	ELECT 100MF	20% 16V
C774	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C775	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C776	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C777	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C778	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C781	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C784	1-126-956-91	ELECT 0.1MF	20% 50V
C785	1-126-964-11	ELECT 10MF	20% 50V
C787	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C788	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C790	1-126-934-11	ELECT 220MF	20% 16V
C791	1-126-934-11	ELECT 220MF	20% 16V
C792	1-126-934-11	ELECT 220MF	20% 16V
C794	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C795	1-126-767-11	ELECT 1000MF	20% 16V
C796	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C797	1-126-767-11	ELECT 1000MF	20% 16V
C798	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C799	1-126-767-11	ELECT 1000MF	20% 16V
C800	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C801	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C802	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C803	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C804	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C805	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C806	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C807	1-126-933-11	ELECT 100MF	20% 16V
C808	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C809	1-126-933-11	ELECT 100MF	20% 16V
C810	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C811	1-126-933-11	ELECT 100MF	20% 16V
C812	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C813	1-126-934-11	ELECT 220MF	20% 16V
C814	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C815	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C816	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C817	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C818	1-126-934-11	ELECT 220MF	20% 16V
C819	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C820	1-126-934-11	ELECT 220MF	20% 16V
C821	1-126-934-11	ELECT 220MF	20% 16V
C822	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C823	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C824	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C825	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C826	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C827	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C828	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C829	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C830	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C831	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C832	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C833	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C834	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C835	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C836	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C837	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C838	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C839	1-163-131-00	CERAMIC CHIP 390PF	5% 50V
C840	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C841	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C842	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C843	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C844	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C845	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1001	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1002	1-104-664-11	ELECT 47MF	20% 16V
C1003	1-104-664-11	ELECT 47MF	20% 16V
C1004	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1005	1-104-664-11	ELECT 47MF	20% 16V
C1006	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C1007	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C1008	1-163-253-11	CERAMIC CHIP 120PF	5% 50V
C1009	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1010	1-126-964-11	ELECT 10MF	20% 50V
C1011	1-107-698-11	ELECT 10MF	20% 25V
C1012	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1013	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1014	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1015	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1016	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C1017	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1018	1-104-665-11	ELECT 100MF	20% 10V
C1019	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1020	1-104-664-11	ELECT 47MF	20% 16V
C1021	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1023	1-104-664-11	ELECT 47MF	20% 16V
C1024	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1025	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1026	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1027	1-164-346-11	CERAMIC CHIP 1MF	16V
C1028	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1029	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1030	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1031	1-104-664-11	ELECT 47MF	20% 16V
C1032	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1033	1-104-664-11	ELECT 47MF	20% 16V
C1034	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1035	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1036	1-104-664-11	ELECT 47MF	20% 16V
C1037	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1038	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1039	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1040	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1041	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1042	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1043	1-104-664-11	ELECT 47MF	20% 16V
C1044	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1045	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1046	1-104-664-11	ELECT 47MF	20% 16V
C1047	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1048	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1049	1-126-964-11	ELECT 10MF	20% 50V
C1050	1-163-091-00	CERAMIC CHIP 8PF	0.25PF50V
C1051	1-104-664-11	ELECT 47MF	20% 16V
C1052	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1053	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1054	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1055	1-104-664-11	ELECT 47MF	20% 16V
C1056	1-126-964-11	ELECT 10MF	20% 50V
C1057	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1058	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1059	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1060	1-164-346-11	CERAMIC CHIP 1MF	16V
C1061	1-126-960-11	ELECT 1MF	20% 50V
C1062	1-104-664-11	ELECT 47MF	20% 16V
C1063	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1064	1-163-241-11	CERAMIC CHIP 39PF	5% 50V
C1065	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1066	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1067	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1068	1-104-664-11	ELECT 47MF	20% 16V
C1069	1-104-664-11	ELECT 47MF	20% 16V
C1070	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C1071	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C1072	1-126-964-11	ELECT 10MF	20% 50V
C1073	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1074	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C1075	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1076	1-126-964-11	ELECT 10MF	20% 50V
C1077	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1078	1-126-960-11	ELECT 1MF	20% 50V
C1079	1-126-960-11	ELECT 1MF	20% 50V
C1080	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1081	1-104-664-11	ELECT 47MF	20% 16V
C1082	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1083	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1084	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1085	1-126-959-11	ELECT 0.47MF	20% 50V
C1086	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1087	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1088	1-126-963-11	ELECT 4.7MF	20% 50V
C1090	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C1091	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C1092	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1093	1-104-664-11	ELECT 47MF	20% 16V
C1094	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C1095	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C1096	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1097	1-104-664-11	ELECT 47MF	20% 16V
C1098	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1099	1-104-664-11	ELECT 47MF	20% 16V
C1100	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1101	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1102	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1103	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C1104	1-163-145-00	CERAMIC CHIP 0.0015MF	5% 50V
C1105	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1106	1-126-963-11	ELECT 4.7MF	20% 50V
C1107	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1108	1-104-664-11	ELECT 47MF	20% 16V
C1109	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C1301	1-126-965-11	ELECT 22MF	20% 50V
C1302	1-126-965-11	ELECT 22MF	20% 50V
C1303	1-126-965-11	ELECT 22MF	20% 50V
C1304	1-163-233-11	CERAMIC CHIP 18PF	5% 50V
C1305	1-163-241-11	CERAMIC CHIP 39PF	5% 50V
C1306	1-163-229-11	CERAMIC CHIP 12PF	5% 50V
C1307	1-126-964-11	ELECT 10MF	20% 50V
C1308	1-126-964-11	ELECT 10MF	20% 50V
C1309	1-126-964-11	ELECT 10MF	20% 50V
C1310	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1311	1-104-664-11	ELECT 47MF	20% 16V
C1313	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1314	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1315	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1319	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1320	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1500	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1501	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1502	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1503	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1504	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C1505	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1506	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1507	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C1508	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1509	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1511	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1512	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1513	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1514	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1515	1-104-664-11	ELECT	47MF	20%	16V
C1516	1-163-253-11	CERAMIC CHIP	120PF	5%	50V
C1517	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C1519	1-104-664-11	ELECT	47MF	20%	16V
C1520	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1521	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C1522	1-126-960-11	ELECT	1MF	20%	50V
C1523	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1525	1-126-960-11	ELECT	1MF	20%	50V
C1526	1-104-664-11	ELECT	47MF	20%	16V
C1527	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C1528	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1529	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1530	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1531	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1532	1-104-664-11	ELECT	47MF	20%	16V
C1533	1-104-664-11	ELECT	47MF	20%	16V
C1534	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1535	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1536	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C1537	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C1538	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C1540	1-126-963-11	ELECT	4.7MF	20%	50V
C1542	1-126-959-11	ELECT	0.47MF	20%	50V
C1543	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C1544	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C1546	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C1547	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1548	1-126-963-11	ELECT	4.7MF	20%	50V
C1549	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V
C1550	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1551	1-104-664-11	ELECT	47MF	20%	16V
C1552	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1553	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1555	1-163-245-11	CERAMIC CHIP	56PF	5%	50V
C1557	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1558	1-126-960-11	ELECT	1MF	20%	50V
C1559	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1560	1-126-960-11	ELECT	1MF	20%	50V
C1561	1-164-690-91	CERAMIC CHIP	0.0022MF	5%	50V
C1562	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C1563	1-104-664-11	ELECT	47MF	20%	16V
C1565	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1566	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1568	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1571	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1572	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1573	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1575	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1576	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1577	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1578	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1579	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1580	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1584	1-137-491-11	FILM CHIP	0.1MF	5%	25V
C1585	1-137-491-11	FILM CHIP	0.1MF	5%	25V
C1586	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1587	1-104-666-11	ELECT	220MF	20%	25V
C1588	1-126-934-11	ELECT	220MF	20%	16V

<CONNECTOR>

CN1	1-506-480-11	PIN, CONNECTOR 15P
CN2	1-506-480-11	PIN, CONNECTOR 15P
CN3	1-506-480-11	PIN, CONNECTOR 15P
CN4	1-764-080-21	PIN, CONNECTOR (PC BOARD) 8P
CN5	* 1-695-890-21	PIN, CONNECTOR (PC BOARD) 12P
CN6	* 1-568-788-21	PIN, CONNECTOR 11P
CN7	* 1-564-948-21	PIN, CONNECTOR 3P
CN252	1-750-628-11	SOCKET, DIN 8P

<TRIMMER>

CT15001	1-141-370-11	CAP, CHIP TRIMMER 50PF
CT15011	1-141-368-11	CAP, CHIP TRIMMER 30PF
CV200	1-141-322-11	CAP, CHIP TYPE TRIMMER 20PF (NTSC)
CV201	1-141-322-11	CAP, CHIP TYPE TRIMMER 20PF (PAL)

<DIODE>

D1	8-719-033-86	DIODE CL-170D-CD-T
D16	8-719-158-49	ZENER DIODE RD12SB2
D17	8-719-158-49	ZENER DIODE RD12SB2
D18	8-719-158-49	ZENER DIODE RD12SB2
D19	8-719-158-49	ZENER DIODE RD12SB2
D20	8-719-158-49	ZENER DIODE RD12SB2
D21	8-719-158-49	ZENER DIODE RD12SB2
D22	8-719-158-49	ZENER DIODE RD12SB2
D23	8-719-158-49	ZENER DIODE RD12SB2
D306	8-719-800-76	DIODE 1SS226
D308	8-719-800-76	DIODE 1SS226
D310	8-719-800-76	DIODE 1SS226
D312	8-719-800-76	DIODE 1SS226
D314	8-719-800-76	DIODE 1SS226
D322	8-719-800-76	DIODE 1SS226
D324	8-719-800-76	DIODE 1SS226
D326	8-719-800-76	DIODE 1SS226
D328	8-719-800-76	DIODE 1SS226
D329	8-719-800-76	DIODE 1SS226
D330	8-719-800-76	DIODE 1SS226
D331	8-719-404-49	DIODE MA111
D332	8-719-800-76	DIODE 1SS226
D334	8-719-800-76	DIODE 1SS226

REF.NO.	PART NO.	DESCRIPTION	REMARK
D336	8-719-800-76	DIODE 1SS226	
D341	8-719-404-49	DIODE MA111	
D342	8-719-404-49	DIODE MA111	
D501	8-719-421-40	DIODE MA77	
D502	8-719-421-40	DIODE MA77	
D503	8-719-421-40	DIODE MA77	
D504	8-719-421-40	DIODE MA77	
D505	8-719-421-40	DIODE MA77	
D506	8-719-421-40	DIODE MA77	
D508	8-719-800-76	DIODE 1SS226	
D510	8-719-800-76	DIODE 1SS226	
D512	8-719-800-76	DIODE 1SS226	
D514	8-719-800-76	DIODE 1SS226	
D516	8-719-800-76	DIODE 1SS226	
D518	8-719-800-76	DIODE 1SS226	
D520	8-719-421-40	DIODE MA77	
D521	8-719-421-40	DIODE MA77	
D522	8-719-421-40	DIODE MA77	
D523	8-719-421-40	DIODE MA77	
D524	8-719-421-40	DIODE MA77	
D526	8-719-800-76	DIODE 1SS226	
D528	8-719-800-76	DIODE 1SS226	
D530	8-719-800-76	DIODE 1SS226	
D532	8-719-800-76	DIODE 1SS226	
D534	8-719-800-76	DIODE 1SS226	
D536	8-719-800-76	DIODE 1SS226	
D537	8-719-421-40	DIODE MA77	
D538	8-719-421-40	DIODE MA77	
D539	8-719-421-40	DIODE MA77	
D540	8-719-421-40	DIODE MA77	
D541	8-719-421-40	DIODE MA77	
D542	8-719-421-40	DIODE MA77	
D544	8-719-800-76	DIODE 1SS226	
D546	8-719-800-76	DIODE 1SS226	
D548	8-719-800-76	DIODE 1SS226	
D550	8-719-800-76	DIODE 1SS226	
D552	8-719-800-76	DIODE 1SS226	
D554	8-719-800-76	DIODE 1SS226	
D555	8-719-421-40	DIODE MA77	
D701	8-719-404-49	DIODE MA111	
D702	8-719-404-49	DIODE MA111	
D703	8-719-404-49	DIODE MA111	
D704	8-719-421-40	DIODE MA77	
D705	8-719-421-40	DIODE MA77	
D706	8-719-421-40	DIODE MA77	
D707	8-719-421-40	DIODE MA77	
D708	8-719-421-40	DIODE MA77	
D709	8-719-421-40	DIODE MA77	
D710	8-719-421-40	DIODE MA77	
D711	8-719-421-40	DIODE MA77	
D712	8-719-421-40	DIODE MA77	
D713	8-719-421-40	DIODE MA77	
D714	8-719-421-40	DIODE MA77	
D715	8-719-421-40	DIODE MA77	
D716	8-719-404-49	DIODE MA111	
D717	8-719-404-49	DIODE MA111	
D718	8-719-404-49	DIODE MA111	
D719	8-719-404-49	DIODE MA111	
D720	8-719-404-49	DIODE MA111	
D721	8-719-404-49	DIODE MA111	
D722	8-719-421-40	DIODE MA77	
D723	8-719-421-40	DIODE MA77	
D724	8-719-421-40	DIODE MA77	
D725	8-719-421-40	DIODE MA77	
D726	8-719-421-40	DIODE MA77	
D727	8-719-421-40	DIODE MA77	
D1001	8-719-988-62	DIODE 1SS355	
D1002	8-719-988-62	DIODE 1SS355	
D1501	8-719-404-49	DIODE MA111	
D1502	8-719-421-40	DIODE MA77	
		<DELAY LINE>	
DL301	1-402-770-11	DELAY LINE	
DL302	1-402-768-11	DELAY LINE	
DL1301	1-402-768-11	DELAY LINE	
DL1302	1-402-768-11	DELAY LINE	
		<FERRITE BEAD>	
FB1	1-414-234-22	INDUCTOR CHIP	
FB2	1-414-234-22	INDUCTOR CHIP	
FB3	1-414-234-22	INDUCTOR CHIP	
FB4	1-414-234-22	INDUCTOR CHIP	
FB5	1-414-234-22	INDUCTOR CHIP	
FB6	1-414-234-22	INDUCTOR CHIP	
FB7	1-414-234-22	INDUCTOR CHIP	
FB8	1-414-234-22	INDUCTOR CHIP	
FB9	1-500-104-21	FERRITE	
FB10	1-500-104-21	FERRITE	
FB11	1-500-104-21	FERRITE	
FB12	1-500-104-21	FERRITE	
FB13	1-500-104-21	FERRITE	
FB14	1-500-104-21	FERRITE	
		<FILTER>	
FL501	1-233-554-11	FILTER, LOW PASS	
FL502	1-233-585-11	FILTER, LOW PASS	
FL503	1-233-584-11	FILTER, LOW PASS	
FL504	1-233-583-11	FILTER, LOW PASS	
FL505	1-233-582-11	FILTER, LOW PASS	
FL506	1-233-581-11	FILTER, LOW PASS	
FL507	1-233-554-11	FILTER, LOW PASS	
FL508	1-233-585-11	FILTER, LOW PASS	
FL509	1-233-584-11	FILTER, LOW PASS	
FL510	1-233-583-11	FILTER, LOW PASS	
FL511	1-233-582-11	FILTER, LOW PASS	
FL512	1-233-581-11	FILTER, LOW PASS	
FL513	1-233-554-11	FILTER, LOW PASS	
FL514	1-233-585-11	FILTER, LOW PASS	
FL515	1-233-584-11	FILTER, LOW PASS	
FL516	1-233-583-11	FILTER, LOW PASS	

A

REF.NO.	PART NO.	DESCRIPTION	REMARK
FL517	1-233-582-11	FILTER, LOW PASS	
FL518	1-233-581-11	FILTER, LOW PASS	
FL701	1-233-587-11	FILTER, LOW PASS	
FL702	1-233-586-11	FILTER, LOW PASS	
FL703	1-233-587-11	FILTER, LOW PASS	
FL704	1-233-586-11	FILTER, LOW PASS	
FL705	1-233-587-11	FILTER, LOW PASS	
FL706	1-233-586-11	FILTER, LOW PASS	
FL1001	1-239-384-11	FILTER, EMI	
FL1002	1-543-775-11	FERRITE	
FL1003	1-543-775-11	FERRITE	
FL1007	1-414-234-22	INDUCTOR CHIP	
FL1008	1-414-234-22	INDUCTOR CHIP	
FL1009	1-543-775-11	FERRITE	
FL1010	1-543-775-11	FERRITE	
FL1011	1-543-775-11	FERRITE	
FL1012	1-239-847-11	FILTER, LOW PASS	
FL1013	1-239-384-11	FILTER, EMI	
FL1014	1-239-384-11	FILTER, EMI	
FL1015	1-239-847-11	FILTER, LOW PASS	
FL1016	1-239-847-11	FILTER, LOW PASS	
FL1017	1-543-775-11	FERRITE	
FL1500	1-239-384-11	FILTER, EMI	
FL1501	1-239-847-11	FILTER, LOW PASS	
		<IC>	
IC100	8-759-175-27	IC TC74VHC574F	
IC101	8-759-196-73	IC UPD485505G-25	
IC102	8-759-196-73	IC UPD485505G-25	
IC103	8-759-179-94	IC HM530281-20	
IC104	8-759-179-94	IC HM530281-20	
IC105	8-759-179-94	IC HM530281-20	
IC106	8-759-179-94	IC HM530281-20	
IC107	8-752-375-92	IC CXD303-105Q	
IC108	8-759-175-27	IC TC74VHC574F	
IC150	8-759-175-27	IC TC74VHC574F	
IC151	8-759-196-73	IC UPD485505G-25	
IC152	8-759-196-73	IC UPD485505G-25	
IC153	8-759-179-94	IC HM530281-20	
IC154	8-759-179-94	IC HM530281-20	
IC155	8-759-179-94	IC HM530281-20	
IC156	8-759-179-94	IC HM530281-20	
IC157	8-752-375-92	IC CXD303-105Q	
IC158	8-759-175-27	IC TC74VHC574F	
IC200	8-759-175-27	IC TC74VHC574F	
IC201	8-759-196-73	IC UPD485505G-25	
IC202	8-759-196-73	IC UPD485505G-25	
IC203	8-759-179-94	IC HM530281-20	
IC204	8-759-179-94	IC HM530281-20	
IC205	8-759-179-94	IC HM530281-20	
IC206	8-759-179-94	IC HM530281-20	
IC207	8-752-375-92	IC CXD303-105Q	
IC208	8-759-175-27	IC TC74VHC574F	
IC250	8-752-377-98	IC CXD305-114Q	
IC251	8-759-388-28	IC UPD23C8000WGX-388-E2	
IC252	8-759-569-79	IC HD6433257F-DSCH	
IC253	8-759-162-80	IC MM1170BFB	
IC254	8-759-080-93	IC M6M80041FP	
IC255	8-759-080-93	IC M6M80041FP	
IC256	8-759-080-93	IC M6M80041FP	
IC257	8-759-080-93	IC M6M80041FP	
IC258	8-759-252-59	IC MAX202CSE	
IC259	8-759-032-53	IC MC74HC244AF	
IC260	8-759-032-53	IC MC74HC244AF	
IC261	8-759-032-53	IC MC74HC244AF	
IC262	8-759-032-53	IC MC74HC244AF	
IC263	8-759-032-14	IC MC74HC08AF	
IC264	8-759-362-35	IC ICS9161A-01CW16T	
IC265	8-759-364-08	IC KS6369-20AP	
IC266	8-759-032-32	IC MC74HC132AF	
IC267	8-759-373-60	IC SN74ABT540NS-E05	
IC268	8-759-373-60	IC SN74ABT540NS-E05	
IC269	8-759-032-01	IC MC74HC00AF	
IC270	8-759-186-39	IC TC74VHC74F	
IC271	8-759-186-51	IC TC74VHC157F	
IC272	8-759-295-09	IC TLC2932IPW	
IC273	8-759-032-53	IC MC74HC244AF	
IC274	8-759-032-53	IC MC74HC244AF	
IC275	8-759-461-57	IC SN74ABT574ANS-E05	
IC276	8-759-461-57	IC SN74ABT574ANS-E05	
IC277	8-759-461-57	IC SN74ABT574ANS-E05	
IC278	8-759-373-60	IC SN74ABT540NS-E05	
IC279	8-759-080-93	IC M6M80041FP	
IC280	8-759-186-51	IC TC74VHC157F	
IC300	8-752-053-21	IC CXA1211M	
IC301	8-752-053-21	IC CXA1211M	
IC302	8-759-011-65	IC MC74HC4053F	
IC303	8-759-011-65	IC MC74HC4053F	
IC304	8-759-635-27	IC M62352GP-75E	
IC305	8-759-288-85	IC TDA4665T-T	
IC306	8-759-082-61	IC TC4W53FU	
IC307	8-759-082-61	IC TC4W53FU	
IC308	8-759-082-61	IC TC4W53FU	
IC314	8-759-073-54	IC TC74AC157F-EL	
IC317	8-759-011-64	IC MC74HC4052F	
IC318	8-759-032-11	IC MC74HC04AF	
IC319	8-759-360-07	IC BA7657F-E2	
IC321	8-759-372-18	IC UPC1830GT-E2	
IC322	8-759-177-02	IC NJM2267M(TE2)	
IC501	8-759-011-63	IC MC74HC4051F	
IC502	8-759-635-27	IC M62352GP-75E	
IC503	8-759-637-31	IC M52036SP	
IC504	8-759-983-69	IC LM358PS	
IC505	8-752-070-09	IC CXA1779P	
IC506	8-759-198-31	IC UPC1093J-1-T	
IC507	8-759-007-50	IC MC74HC11F	
IC508	8-759-925-80	IC SN74HC14ANS	
IC509	8-759-198-31	IC UPC1093J-1-T	
IC510	8-759-198-31	IC UPC1093J-1-T	
IC511	8-752-371-18	IC CXD2302Q	
IC512	8-752-371-18	IC CXD2302Q	
IC513	8-752-371-18	IC CXD2302Q	

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC514	8-759-008-40	IC MC74HC4078F	
IC515	8-759-008-40	IC MC74HC4078F	
IC516	8-759-008-40	IC MC74HC4078F	
IC517	8-759-032-53	IC MC74HC244AF	
IC518	8-759-007-56	IC MC74HC30F	
IC519	8-759-007-56	IC MC74HC30F	
IC520	8-759-007-56	IC MC74HC30F	
IC521	8-759-082-61	IC TC4W53FU	
IC522	8-759-008-45	IC MC74HC4538F	
IC701	8-759-348-09	IC SNY422-SONY	
IC702	8-759-011-65	IC MC74HC4053F	
IC703	8-759-369-85	IC BT121KPJ80	
IC704	8-759-240-80	IC TC74HC153AF	
IC705	8-759-011-65	IC MC74HC4053F	
IC707	8-752-068-43	IC CXA1645M	
IC708	8-759-082-55	IC TC7W00FU	
IC710	8-752-070-09	IC CXA1779P	
IC711	8-759-008-45	IC MC74HC4538F	
IC712	8-759-390-38	IC UPC24M12AHF	
IC713	8-759-144-82	IC UPC2405HF	
IC714	8-759-144-82	IC UPC2405HF	
IC715	8-759-082-61	IC TC4W53FU	
IC716	8-759-082-61	IC TC4W53FU	
IC717	8-759-082-61	IC TC4W53FU	
IC718	8-759-433-44	IC MM1031XML	
IC719	8-759-506-22	IC MM1041XM	
IC1001	8-752-372-78	IC CXD2024AQ	
IC1002	8-759-296-51	IC UPD6486GF-3BA	
IC1003	8-759-161-24	IC UPC659AGS-E2	
IC1004	8-759-167-20	IC UPD42280GU-30	
IC1005	8-759-167-20	IC UPD42280GU-30	
IC1006	8-759-446-66	IC MM1113XFBE	
IC1007	8-759-446-66	IC MM1113XFBE	
IC1008	8-759-011-65	IC MC74HC4053F	
IC1009	8-759-296-53	IC UPC1862GS-E2	
IC1010	8-759-209-57	IC TC4S69F(TE85R)	
IC1500	8-759-186-51	IC TC74VHC157F	
IC1501	8-759-186-51	IC TC74VHC157F	
IC1502	8-759-242-78	IC TC7W02F	
IC1503	8-759-062-66	IC TC7S66F	
IC1504	8-759-987-27	IC LM1881M	
IC1505	8-759-079-80	IC TC74VHC175FS(EL)	
IC1506	8-759-011-65	IC MC74HC4053F	
IC1507	8-759-296-53	IC UPC1862GS-E2	
IC1508	8-759-011-65	IC MC74HC4053F	
IC1509	8-759-079-74	IC TC74VHC157FS(EL)	
IC1510	8-759-164-18	IC MM1118XFF	
IC1512	8-759-514-57	IC BA7046F	
IC1514	8-759-239-55	IC TC74HC123AF	
IC1515	8-759-232-74	IC TC74HC163AF	
IC1516	8-759-186-57	IC TC74VHC175F	
IC1517	8-759-081-42	IC TC74VHC00F	
IC1518	8-759-186-51	IC TC74VHC157F	
IC1519	8-759-232-74	IC TC74HC163AF	
IC1521	8-759-242-70	IC TC7WU04F	
IC1522	8-759-242-70	IC TC7WU04F	
IC1523	8-759-082-55	IC TC7W00FU	
IC1525	8-759-186-39	IC TC74VHC74F	
IC1526	8-759-038-15	IC MC74HC4538AF	
IC1527	8-759-082-55	IC TC7W00FU	
IC1528	8-759-242-70	IC TC7WU04F	

<COIL>

L201	1-410-471-11	INDUCTOR	12UH
L302	1-410-193-51	INDUCTOR CHIP	1.2UH
L303	1-410-476-11	INDUCTOR	33UH
L304	1-410-476-11	INDUCTOR	33UH
L501	1-410-471-11	INDUCTOR	12UH
L504	1-410-471-11	INDUCTOR	12UH
L505	1-410-471-11	INDUCTOR	12UH
L701	1-410-471-11	INDUCTOR	12UH
L1001	1-414-042-21	INDUCTOR	18UH
L1002	1-414-042-21	INDUCTOR	18UH
L1003	1-414-042-21	INDUCTOR	18UH
L1004	1-414-042-21	INDUCTOR	18UH
L1005	1-410-193-51	INDUCTOR CHIP	1.2UH
L1006	1-410-193-51	INDUCTOR CHIP	1.2UH
L1007	1-410-193-51	INDUCTOR CHIP	1.2UH
L1008	1-410-193-51	INDUCTOR CHIP	1.2UH
L1009	1-410-193-51	INDUCTOR CHIP	1.2UH
L1010	1-410-193-51	INDUCTOR CHIP	1.2UH
L1011	1-410-193-51	INDUCTOR CHIP	1.2UH
L1012	1-410-193-51	INDUCTOR CHIP	1.2UH
L1013	1-410-193-51	INDUCTOR CHIP	1.2UH
L1014	1-410-193-51	INDUCTOR CHIP	1.2UH
L1015	1-410-193-51	INDUCTOR CHIP	1.2UH
L1016	1-410-193-51	INDUCTOR CHIP	1.2UH
L1017	1-410-204-31	INDUCTOR CHIP	10UH
L1301	1-410-193-51	INDUCTOR CHIP	1.2UH
L1500	1-414-042-21	INDUCTOR	18UH
L1501	1-410-204-31	INDUCTOR CHIP	10UH
L1502	1-410-193-51	INDUCTOR CHIP	1.2UH
L1503	1-410-193-51	INDUCTOR CHIP	1.2UH
L1504	1-410-193-51	INDUCTOR CHIP	1.2UH
L1505	1-410-193-51	INDUCTOR CHIP	1.2UH
L1506	1-410-193-51	INDUCTOR CHIP	1.2UH
L1507	1-414-042-21	INDUCTOR	18UH
L1508	1-410-471-11	INDUCTOR	12UH
L1509	1-410-193-51	INDUCTOR CHIP	1.2UH

<TRANSISTOR>

Q1	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q200	8-729-107-31	TRANSISTOR 2SC3545-T43
Q215	8-729-216-22	TRANSISTOR 2SA1162-G
Q307	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R
Q310	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q311	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R
Q313	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q314	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q315	8-729-120-28	TRANSISTOR 2SC1623-L5L6

A

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q316	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q317	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q318	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q320	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q321	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q322	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q323	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q324	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q325	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q326	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q327	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q328	8-729-901-00	TRANSISTOR DTC124EK	
Q329	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q351	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q352	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q353	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q354	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q355	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q356	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q357	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q358	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q359	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q501	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q503	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q504	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q505	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q506	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q507	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q508	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q509	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q510	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q511	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q512	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q513	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q514	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q515	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q516	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q517	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q518	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q519	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q520	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q521	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q522	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q523	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q524	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q525	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q526	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q527	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q528	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q529	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q530	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q531	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q532	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q533	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q534	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q535	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q536	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q537	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q538	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q539	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q540	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q541	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q542	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q543	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q544	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q545	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q546	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q547	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q548	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q549	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q550	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q551	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q552	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q553	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q554	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q555	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q556	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q557	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q558	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q559	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q560	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q561	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q562	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q563	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q564	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q565	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q566	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q567	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q568	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q569	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q570	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q571	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q572	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q573	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q574	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q575	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q576	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q577	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q578	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q579	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q580	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q581	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q582	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q583	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q584	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q585	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q586	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q587	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q588	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q589	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q590	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q591	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q592	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q593	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q594	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q595	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q596	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q597	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q598	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q599	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q600	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q601	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q602	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q603	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q604	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q605	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q606	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q607	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q608	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q609	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q610	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q611	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q612	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q613	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q614	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q615	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q616	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q701	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q703	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q704	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q705	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q706	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q710	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q711	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q712	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q713	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q714	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q715	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q716	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q717	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q718	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q719	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q720	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q721	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q722	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q723	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q724	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q725	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q726	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q727	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q728	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q729	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q730	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q731	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q732	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q733	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q734	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q735	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q736	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q737	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q738	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q739	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q740	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q741	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q742	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q743	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q744	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q745	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q746	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q747	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q748	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q749	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q750	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q751	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q752	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q753	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q754	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q755	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q759	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q760	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q761	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q763	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q764	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q765	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q766	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q767	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q768	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q769	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q770	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q771	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q772	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q773	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q774	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q775	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q776	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q777	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q778	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1001	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1002	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1003	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1004	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1005	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1006	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1007	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1008	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1009	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1010	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1011	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1012	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1013	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1014	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1015	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1016	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1017	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1018	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1019	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1020	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1301	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1304	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1305	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1306	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1307	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1308	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1309	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1310	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1311	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1312	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1313	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1314	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1315	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1316	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1318	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1319	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1320	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1321	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1322	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1501	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1502	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1503	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1504	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1505	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1506	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	

<RESISTOR>

R8	1-216-073-00	RES,CHIP	10K	5% 1/10W
R9	1-216-073-00	RES,CHIP	10K	5% 1/10W
R10	1-216-073-00	RES,CHIP	10K	5% 1/10W
R13	1-216-073-00	RES,CHIP	10K	5% 1/10W
R20	1-216-049-91	RES,CHIP	1K	5% 1/10W
R26	1-216-073-00	RES,CHIP	10K	5% 1/10W
R41	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
R42	1-216-041-00	RES,CHIP	470	5% 1/10W
R43	1-216-073-00	RES,CHIP	10K	5% 1/10W
R62	1-216-025-91	RES,CHIP	100	5% 1/10W
R68	1-216-025-91	RES,CHIP	100	5% 1/10W
R79	1-216-073-00	RES,CHIP	10K	5% 1/10W
R84	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W
R89	1-216-013-00	RES,CHIP	33	5% 1/10W
R98	1-216-073-00	RES,CHIP	10K	5% 1/10W
R99	1-216-025-91	RES,CHIP	100	5% 1/10W
R100	1-216-025-91	RES,CHIP	100	5% 1/10W
R101	1-216-013-00	RES,CHIP	33	5% 1/10W
R102	1-216-013-00	RES,CHIP	33	5% 1/10W
R103	1-216-013-00	RES,CHIP	33	5% 1/10W
R104	1-216-013-00	RES,CHIP	33	5% 1/10W
R105	1-216-013-00	RES,CHIP	33	5% 1/10W
R106	1-216-013-00	RES,CHIP	33	5% 1/10W
R108	1-216-013-00	RES,CHIP	33	5% 1/10W
R109	1-216-013-00	RES,CHIP	33	5% 1/10W
R112	1-216-009-00	RES,CHIP	22	5% 1/10W
R113	1-216-013-00	RES,CHIP	33	5% 1/10W
R114	1-216-013-00	RES,CHIP	33	5% 1/10W
R115	1-216-013-00	RES,CHIP	33	5% 1/10W
R116	1-216-013-00	RES,CHIP	33	5% 1/10W
R117	1-216-013-00	RES,CHIP	33	5% 1/10W
R118	1-216-013-00	RES,CHIP	33	5% 1/10W
R119	1-216-013-00	RES,CHIP	33	5% 1/10W
R120	1-216-013-00	RES,CHIP	33	5% 1/10W
R121	1-216-013-00	RES,CHIP	33	5% 1/10W
R122	1-216-013-00	RES,CHIP	33	5% 1/10W
R123	1-216-009-00	RES,CHIP	22	5% 1/10W
R124	1-216-009-00	RES,CHIP	22	5% 1/10W
R125	1-216-009-00	RES,CHIP	22	5% 1/10W
R126	1-216-009-00	RES,CHIP	22	5% 1/10W
R127	1-216-009-00	RES,CHIP	22	5% 1/10W
R128	1-216-009-00	RES,CHIP	22	5% 1/10W
R129	1-216-009-00	RES,CHIP	22	5% 1/10W
R130	1-216-009-00	RES,CHIP	22	5% 1/10W
R132	1-216-013-00	RES,CHIP	33	5% 1/10W
R133	1-216-013-00	RES,CHIP	33	5% 1/10W
R135	1-216-009-00	RES,CHIP	22	5% 1/10W
R136	1-216-009-00	RES,CHIP	22	5% 1/10W
R137	1-216-009-00	RES,CHIP	22	5% 1/10W
R138	1-216-009-00	RES,CHIP	22	5% 1/10W
R139	1-216-009-00	RES,CHIP	22	5% 1/10W
R141	1-216-013-00	RES,CHIP	33	5% 1/10W
R142	1-216-009-00	RES,CHIP	22	5% 1/10W
R143	1-216-009-00	RES,CHIP	22	5% 1/10W
R144	1-216-009-00	RES,CHIP	22	5% 1/10W
R145	1-216-009-00	RES,CHIP	22	5% 1/10W
R146	1-216-009-00	RES,CHIP	22	5% 1/10W
R148	1-216-013-00	RES,CHIP	33	5% 1/10W
R149	1-216-009-00	RES,CHIP	22	5% 1/10W
R150	1-216-009-00	RES,CHIP	22	5% 1/10W
R151	1-216-009-00	RES,CHIP	22	5% 1/10W
R153	1-216-017-91	RES,CHIP	47	5% 1/10W
R154	1-216-049-91	RES,CHIP	1K	5% 1/10W
R156	1-216-013-00	RES,CHIP	33	5% 1/10W
R160	1-216-013-00	RES,CHIP	33	5% 1/10W
R161	1-216-013-00	RES,CHIP	33	5% 1/10W
R162	1-216-013-00	RES,CHIP	33	5% 1/10W
R163	1-216-013-00	RES,CHIP	33	5% 1/10W
R164	1-216-013-00	RES,CHIP	33	5% 1/10W
R165	1-216-013-00	RES,CHIP	33	5% 1/10W
R166	1-216-009-00	RES,CHIP	22	5% 1/10W
R167	1-216-009-00	RES,CHIP	22	5% 1/10W
R168	1-216-009-00	RES,CHIP	22	5% 1/10W
R169	1-216-009-00	RES,CHIP	22	5% 1/10W
R170	1-216-013-00	RES,CHIP	33	5% 1/10W
R171	1-216-013-00	RES,CHIP	33	5% 1/10W
R173	1-216-073-00	RES,CHIP	10K	5% 1/10W
R177	1-216-073-00	RES,CHIP	10K	5% 1/10W

REF.NO.	PART NO.	DESCRIPTION		REMARK
R178	1-216-073-00	RES,CHIP	10K	5% 1/10W
R179	1-216-073-00	RES,CHIP	10K	5% 1/10W
R180	1-216-073-00	RES,CHIP	10K	5% 1/10W
R181	1-216-073-00	RES,CHIP	10K	5% 1/10W
R182	1-216-073-00	RES,CHIP	10K	5% 1/10W
R183	1-216-073-00	RES,CHIP	10K	5% 1/10W
R184	1-216-025-91	RES,CHIP	100	5% 1/10W
R185	1-216-025-91	RES,CHIP	100	5% 1/10W
R186	1-216-025-91	RES,CHIP	100	5% 1/10W
R187	1-216-025-91	RES,CHIP	100	5% 1/10W
R188	1-216-025-91	RES,CHIP	100	5% 1/10W
R189	1-216-025-91	RES,CHIP	100	5% 1/10W
R199	1-216-073-00	RES,CHIP	10K	5% 1/10W
R200	1-216-013-00	RES,CHIP	33	5% 1/10W
R201	1-216-295-91	SHORT	0	
R202	1-216-295-91	SHORT	0	
R203	1-216-685-11	METAL CHIP	27K	0.50% 1/10W
R204	1-216-627-11	METAL CHIP	100	0.50% 1/10W
R205	1-216-677-11	METAL CHIP	12K	0.50% 1/10W
R208	1-216-699-11	METAL CHIP	100K	0.50% 1/10W
R209	1-216-025-91	RES,CHIP	100	5% 1/10W
R210	1-218-756-11	METAL CHIP	150K	0.50% 1/10W
R211	1-216-645-11	METAL CHIP	560	0.50% 1/10W
R212	1-216-663-11	METAL CHIP	3.3K	0.50% 1/10W
R215	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R216	1-216-065-91	“RES,CHIP”	4.7K	5% 1/10W
R217	1-216-689-11	METAL CHIP	39K	0.50% 1/10W
R218	1-216-679-11	METAL CHIP	15K	0.50% 1/10W
R219	1-216-073-00	RES,CHIP	10K	5% 1/10W
R220	1-216-073-00	RES,CHIP	10K	5% 1/10W
R221	1-216-692-11	METAL CHIP	51K	0.50% 1/10W
R222	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R223	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R224	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R225	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R226	1-216-681-11	METAL CHIP	18K	0.50% 1/10W
R227	1-216-686-11	METAL CHIP	30K	0.50% 1/10W
R228	1-216-031-00	RES,CHIP	180	5% 1/10W
R230	1-216-685-11	METAL CHIP	27K	0.50% 1/10W
R231	1-216-683-11	METAL CHIP	22K	0.50% 1/10W
R232	1-216-089-91	RES,CHIP	47K	5% 1/10W
R235	1-216-089-91	RES,CHIP	47K	5% 1/10W
R236	1-216-055-00	RES,CHIP	1.8K	5% 1/10W
R237	1-216-061-00	RES,CHIP	3.3K	5% 1/10W
R238	1-216-075-00	RES,CHIP	12K	5% 1/10W
R239	1-216-025-91	RES,CHIP	100	5% 1/10W
R240	1-216-295-91	SHORT	0	
R241	1-216-295-91	SHORT	0	
R242	1-216-295-91	SHORT	0	
R243	1-216-660-11	METAL CHIP	2.4K	0.50% 1/10W
R244	1-216-660-11	METAL CHIP	2.4K	0.50% 1/10W
R245	1-216-037-00	RES,CHIP	330	5% 1/10W
R246	1-216-295-91	SHORT	0	
R247	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R248	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W
R249	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R250	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W
R251	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R252	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W
R253	1-216-037-00	RES,CHIP	330	5% 1/10W
R254	1-216-295-91	SHORT	0	
R255	1-216-295-91	SHORT	0	
R256	1-216-073-00	RES,CHIP	10K	5% 1/10W
R257	1-216-660-11	METAL CHIP	2.4K	0.50% 1/10W
R258	1-216-083-00	RES,CHIP	27K	5% 1/10W
R259	1-216-089-91	RES,CHIP	47K	5% 1/10W
R260	1-216-089-91	RES,CHIP	47K	5% 1/10W
R261	1-216-089-91	RES,CHIP	47K	5% 1/10W
R262	1-216-089-91	RES,CHIP	47K	5% 1/10W
R263	1-216-077-00	RES,CHIP	15K	5% 1/10W
R264	1-216-077-00	RES,CHIP	15K	5% 1/10W
R265	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R266	1-216-295-91	SHORT	0	
R267	1-216-073-00	RES,CHIP	10K	5% 1/10W
R268	1-216-089-91	RES,CHIP	47K	5% 1/10W
R269	1-216-077-00	RES,CHIP	15K	5% 1/10W
R270	1-216-073-00	RES,CHIP	10K	5% 1/10W
R271	1-216-073-00	RES,CHIP	10K	5% 1/10W
R272	1-216-073-00	RES,CHIP	10K	5% 1/10W
R273	1-216-073-00	RES,CHIP	10K	5% 1/10W
R274	1-216-073-00	RES,CHIP	10K	5% 1/10W
R275	1-216-073-00	RES,CHIP	10K	5% 1/10W
R276	1-216-073-00	RES,CHIP	10K	5% 1/10W
R277	1-216-073-00	RES,CHIP	10K	5% 1/10W
R278	1-216-073-00	RES,CHIP	10K	5% 1/10W
R279	1-216-073-00	RES,CHIP	10K	5% 1/10W
R280	1-216-073-00	RES,CHIP	10K	5% 1/10W
R281	1-216-073-00	RES,CHIP	10K	5% 1/10W
R282	1-216-073-00	RES,CHIP	10K	5% 1/10W
R283	1-216-073-00	RES,CHIP	10K	5% 1/10W
R284	1-216-073-00	RES,CHIP	10K	5% 1/10W
R285	1-216-073-00	RES,CHIP	10K	5% 1/10W
R286	1-216-073-00	RES,CHIP	10K	5% 1/10W
R287	1-216-073-00	RES,CHIP	10K	5% 1/10W
R288	1-216-073-00	RES,CHIP	10K	5% 1/10W
R289	1-216-073-00	RES,CHIP	10K	5% 1/10W
R290	1-216-073-00	RES,CHIP	10K	5% 1/10W
R291	1-216-073-00	RES,CHIP	10K	5% 1/10W
R292	1-216-073-00	RES,CHIP	10K	5% 1/10W
R293	1-216-073-00	RES,CHIP	10K	5% 1/10W
R294	1-216-073-00	RES,CHIP	10K	5% 1/10W
R295	1-216-073-00	RES,CHIP	10K	5% 1/10W
R296	1-216-073-00	RES,CHIP	10K	5% 1/10W
R297	1-216-073-00	RES,CHIP	10K	5% 1/10W
R298	1-216-073-00	RES,CHIP	10K	5% 1/10W
R299	1-216-073-00	RES,CHIP	10K	5% 1/10W
R300	1-216-073-00	RES,CHIP	10K	5% 1/10W
R301	1-216-073-00	RES,CHIP	10K	5% 1/10W
R309	1-216-025-91	RES,CHIP	100	5% 1/10W
R310	1-216-025-91	RES,CHIP	100	5% 1/10W
R311	1-216-025-91	RES,CHIP	100	5% 1/10W
R312	1-216-105-91	RES,CHIP	220K	5% 1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R313	1-216-097-91	RES,CHIP	100K	5%	1/10W
R314	1-216-049-91	RES,CHIP	1K	5%	1/10W
R315	1-216-049-91	RES,CHIP	1K	5%	1/10W
R316	1-216-049-91	RES,CHIP	1K	5%	1/10W
R317	1-216-033-00	RES,CHIP	220	5%	1/10W
R318	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R319	1-216-049-91	RES,CHIP	1K	5%	1/10W
R326	1-216-089-91	RES,CHIP	47K	5%	1/10W
R327	1-216-105-91	RES,CHIP	220K	5%	1/10W
R335	1-216-097-91	RES,CHIP	100K	5%	1/10W
R336	1-216-099-00	RES,CHIP	120K	5%	1/10W
R341	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R342	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R346	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R347	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R348	1-216-295-91	SHORT	0		
R350	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R352	1-216-295-91	SHORT	0		
R353	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R354	1-216-295-91	SHORT	0		
R355	1-216-295-91	SHORT	0		
R361	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R362	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R363	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R364	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R365	1-216-033-00	RES,CHIP	220	5%	1/10W
R366	1-216-295-91	SHORT	0		
R367	1-216-295-91	SHORT	0		
R368	1-216-295-91	SHORT	0		
R369	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R370	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R371	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R372	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R373	1-216-690-11	METAL CHIP	43K	0.50%	1/10W
R375	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R376	1-218-756-11	METAL CHIP	150K	0.50%	1/10W
R378	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R379	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R380	1-216-643-11	METAL CHIP	470	0.50%	1/10W
R383	1-218-772-11	METAL CHIP	680K	0.50%	1/10W
R384	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R385	1-216-646-11	METAL CHIP	620	0.50%	1/10W
R387	1-216-121-91	“RES,CHIP”	1M	5%	1/10W
R388	1-216-121-91	“RES,CHIP”	1M	5%	1/10W
R389	1-216-121-91	“RES,CHIP”	1M	5%	1/10W
R392	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R393	1-218-775-11	METAL CHIP	910K	0.50%	1/10W
R394	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R395	1-216-295-91	SHORT	0		
R396	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R399	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R400	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R404	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R405	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R406	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R407	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R408	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R409	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R411	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R412	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R413	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R414	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R415	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R416	1-216-652-11	METAL CHIP	1.1K	0.50%	1/10W
R417	1-216-652-11	METAL CHIP	1.1K	0.50%	1/10W
R436	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R437	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R438	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R440	1-216-073-00	RES,CHIP	10K	5%	1/10W
R441	1-216-073-00	RES,CHIP	10K	5%	1/10W
R442	1-216-073-00	RES,CHIP	10K	5%	1/10W
R443	1-216-073-00	RES,CHIP	10K	5%	1/10W
R444	1-216-073-00	RES,CHIP	10K	5%	1/10W
R445	1-216-073-00	RES,CHIP	10K	5%	1/10W
R446	1-216-073-00	RES,CHIP	10K	5%	1/10W
R447	1-216-073-00	RES,CHIP	10K	5%	1/10W
R448	1-216-073-00	RES,CHIP	10K	5%	1/10W
R449	1-216-073-00	RES,CHIP	10K	5%	1/10W
R450	1-216-073-00	RES,CHIP	10K	5%	1/10W
R451	1-216-073-00	RES,CHIP	10K	5%	1/10W
R452	1-216-073-00	RES,CHIP	10K	5%	1/10W
R453	1-216-073-00	RES,CHIP	10K	5%	1/10W
R454	1-216-073-00	RES,CHIP	10K	5%	1/10W
R455	1-216-073-00	RES,CHIP	10K	5%	1/10W
R456	1-216-073-00	RES,CHIP	10K	5%	1/10W
R457	1-216-073-00	RES,CHIP	10K	5%	1/10W
R458	1-216-073-00	RES,CHIP	10K	5%	1/10W
R459	1-216-073-00	RES,CHIP	10K	5%	1/10W
R460	1-216-073-00	RES,CHIP	10K	5%	1/10W
R461	1-216-073-00	RES,CHIP	10K	5%	1/10W
R462	1-216-073-00	RES,CHIP	10K	5%	1/10W
R463	1-216-073-00	RES,CHIP	10K	5%	1/10W
R464	1-216-073-00	RES,CHIP	10K	5%	1/10W
R465	1-216-073-00	RES,CHIP	10K	5%	1/10W
R466	1-216-073-00	RES,CHIP	10K	5%	1/10W
R467	1-216-073-00	RES,CHIP	10K	5%	1/10W
R468	1-216-073-00	RES,CHIP	10K	5%	1/10W
R469	1-216-073-00	RES,CHIP	10K	5%	1/10W
R470	1-216-073-00	RES,CHIP	10K	5%	1/10W
R471	1-216-073-00	RES,CHIP	10K	5%	1/10W
R501	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R502	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R503	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R504	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R505	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R506	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R507	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R508	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R509	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R510	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R511	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R512	1-216-639-11	METAL CHIP	330	0.50%	1/10W

REF.NO.	PART NO.	DESCRIPTION		REMARK
R513	1-216-657-11	METAL CHIP	1.8K	0.50%1/10W
R514	1-216-658-11	METAL CHIP	2K	0.50%1/10W
R515	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R516	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R517	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R518	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R519	1-216-639-11	METAL CHIP	330	0.50%1/10W
R520	1-216-639-11	METAL CHIP	330	0.50%1/10W
R521	1-216-639-11	METAL CHIP	330	0.50%1/10W
R522	1-216-639-11	METAL CHIP	330	0.50%1/10W
R523	1-216-639-11	METAL CHIP	330	0.50%1/10W
R524	1-216-639-11	METAL CHIP	330	0.50%1/10W
R525	1-216-641-11	METAL CHIP	390	0.50%1/10W
R526	1-216-641-11	METAL CHIP	390	0.50%1/10W
R527	1-216-641-11	METAL CHIP	390	0.50%1/10W
R528	1-216-641-11	METAL CHIP	390	0.50%1/10W
R529	1-216-641-11	METAL CHIP	390	0.50%1/10W
R530	1-216-641-11	METAL CHIP	390	0.50%1/10W
R531	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R532	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R533	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R534	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R535	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R536	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R537	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R538	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R539	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R540	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R541	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R542	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R543	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R544	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R545	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R546	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R547	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R548	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R549	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R550	1-216-073-00	RES,CHIP	10K	5% 1/10W
R551	1-216-073-00	RES,CHIP	10K	5% 1/10W
R552	1-216-073-00	RES,CHIP	10K	5% 1/10W
R553	1-216-073-00	RES,CHIP	10K	5% 1/10W
R554	1-216-073-00	RES,CHIP	10K	5% 1/10W
R555	1-216-639-11	METAL CHIP	330	0.50%1/10W
R561	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R562	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R563	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R564	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R565	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R566	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R567	1-216-639-11	METAL CHIP	330	0.50%1/10W
R568	1-216-639-11	METAL CHIP	330	0.50%1/10W
R569	1-216-639-11	METAL CHIP	330	0.50%1/10W
R570	1-216-639-11	METAL CHIP	330	0.50%1/10W
R571	1-216-639-11	METAL CHIP	330	0.50%1/10W
R572	1-216-639-11	METAL CHIP	330	0.50%1/10W
R573	1-216-657-11	METAL CHIP	1.8K	0.50%1/10W
R574	1-216-658-11	METAL CHIP	2K	0.50%1/10W
R575	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R576	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R577	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R578	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R579	1-216-639-11	METAL CHIP	330	0.50%1/10W
R580	1-216-639-11	METAL CHIP	330	0.50%1/10W
R581	1-216-639-11	METAL CHIP	330	0.50%1/10W
R582	1-216-639-11	METAL CHIP	330	0.50%1/10W
R583	1-216-639-11	METAL CHIP	330	0.50%1/10W
R584	1-216-639-11	METAL CHIP	330	0.50%1/10W
R585	1-216-641-11	METAL CHIP	390	0.50%1/10W
R586	1-216-641-11	METAL CHIP	390	0.50%1/10W
R587	1-216-641-11	METAL CHIP	390	0.50%1/10W
R588	1-216-641-11	METAL CHIP	390	0.50%1/10W
R589	1-216-641-11	METAL CHIP	390	0.50%1/10W
R590	1-216-641-11	METAL CHIP	390	0.50%1/10W
R591	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R592	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R593	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R594	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R595	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R596	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R597	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R598	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R599	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R600	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R601	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R602	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R603	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R604	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R605	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R606	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R607	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R608	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R609	1-216-639-11	METAL CHIP	330	0.50%1/10W
R611	1-216-646-11	METAL CHIP	620	0.50%1/10W
R612	1-216-655-11	METAL CHIP	1.5K	0.50%1/10W
R613	1-216-649-11	METAL CHIP	820	0.50%1/10W
R614	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R615	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R616	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R617	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R618	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R619	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R620	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R621	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R622	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R623	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R624	1-216-639-11	METAL CHIP	330	0.50%1/10W
R625	1-216-639-11	METAL CHIP	330	0.50%1/10W
R626	1-216-639-11	METAL CHIP	330	0.50%1/10W
R627	1-216-639-11	METAL CHIP	330	0.50%1/10W
R628	1-216-639-11	METAL CHIP	330	0.50%1/10W
R629	1-216-639-11	METAL CHIP	330	0.50%1/10W
R630	1-216-651-11	METAL CHIP	1K	0.50%1/10W

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REF.NO.	PART NO.	DESCRIPTION		REMARK
R632	1-216-657-11	METAL CHIP	1.8K	0.50%1/10W
R633	1-216-658-11	METAL CHIP	2K	0.50%1/10W
R634	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R635	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R636	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R637	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R638	1-216-639-11	METAL CHIP	330	0.50%1/10W
R639	1-216-639-11	METAL CHIP	330	0.50%1/10W
R640	1-216-639-11	METAL CHIP	330	0.50%1/10W
R641	1-216-639-11	METAL CHIP	330	0.50%1/10W
R642	1-216-639-11	METAL CHIP	330	0.50%1/10W
R643	1-216-639-11	METAL CHIP	330	0.50%1/10W
R645	1-216-641-11	METAL CHIP	390	0.50%1/10W
R646	1-216-641-11	METAL CHIP	390	0.50%1/10W
R647	1-216-641-11	METAL CHIP	390	0.50%1/10W
R648	1-216-641-11	METAL CHIP	390	0.50%1/10W
R649	1-216-641-11	METAL CHIP	390	0.50%1/10W
R650	1-216-641-11	METAL CHIP	390	0.50%1/10W
R651	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R652	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R653	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R654	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R655	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R656	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R657	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R658	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R659	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R660	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R661	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R662	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R663	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R664	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R665	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R666	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R667	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R668	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R669	1-216-639-11	METAL CHIP	330	0.50%1/10W
R694	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R695	1-216-661-11	METAL CHIP	2.7K	0.50%1/10W
R696	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R697	1-216-661-11	METAL CHIP	2.7K	0.50%1/10W
R698	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R699	1-216-661-11	METAL CHIP	2.7K	0.50%1/10W
R701	1-216-295-91	SHORT	0	
R702	1-216-295-91	SHORT	0	
R703	1-216-035-00	RES,CHIP	270	5% 1/10W
R704	1-216-043-91	RES,CHIP	560	5% 1/10W
R705	1-216-025-91	RES,CHIP	100	5% 1/10W
R709	1-216-295-91	SHORT	0	
R710	1-216-295-91	SHORT	0	
R711	1-216-295-91	SHORT	0	
R712	1-216-049-91	RES,CHIP	1K	5% 1/10W
R713	1-216-073-00	RES,CHIP	10K	5% 1/10W
R714	1-216-049-91	RES,CHIP	1K	5% 1/10W
R715	1-216-093-00	RES,CHIP	68K	5% 1/10W
R716	1-216-049-91	RES,CHIP	1K	5% 1/10W
R717	1-216-089-91	RES,CHIP	47K	5% 1/10W
R718	1-216-689-11	RES,CHIP	39K	5% 1/10W
R725	1-216-073-00	RES,CHIP	10K	5% 1/10W
R726	1-216-073-00	RES,CHIP	10K	5% 1/10W
R727	1-216-077-00	RES,CHIP	15K	5% 1/10W
R728	1-216-073-00	RES,CHIP	10K	5% 1/10W
R729	1-216-077-00	RES,CHIP	15K	5% 1/10W
R730	1-216-077-00	RES,CHIP	15K	5% 1/10W
R731	1-216-077-00	RES,CHIP	15K	5% 1/10W
R732	1-216-073-00	RES,CHIP	10K	5% 1/10W
R733	1-216-089-91	RES,CHIP	47K	5% 1/10W
R734	1-216-089-91	RES,CHIP	47K	5% 1/10W
R735	1-216-089-91	RES,CHIP	47K	5% 1/10W
R736	1-216-295-91	SHORT	0	
R737	1-216-295-91	SHORT	0	
R738	1-216-295-91	SHORT	0	
R739	1-216-063-91	RES,CHIP	3.9K	5% 1/10W
R740	1-216-121-91	RES,CHIP	1M	5% 1/10W
R741	1-216-073-00	RES,CHIP	10K	5% 1/10W
R742	1-216-073-00	RES,CHIP	10K	5% 1/10W
R743	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R745	1-216-635-11	METAL CHIP	220	0.50%1/10W
R749	1-216-121-91	RES,CHIP	1M	5% 1/10W
R750	1-216-073-00	RES,CHIP	10K	5% 1/10W
R751	1-216-073-00	RES,CHIP	10K	5% 1/10W
R752	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
R753	1-216-647-11	METAL CHIP	680	0.50%1/10W
R754	1-216-641-11	METAL CHIP	390	0.50%1/10W
R755	1-216-640-11	METAL CHIP	360	0.50%1/10W
R756	1-216-665-11	METAL CHIP	3.9K	0.50%1/10W
R757	1-216-624-11	METAL CHIP	75	0.50%1/10W
R758	1-216-049-91	RES,CHIP	1K	5% 1/10W
R759	1-216-049-91	RES,CHIP	1K	5% 1/10W
R765	1-216-121-91	RES,CHIP	1M	5% 1/10W
R766	1-216-295-91	SHORT	0	
R767	1-216-295-91	SHORT	0	
R770	1-216-624-11	METAL CHIP	75	0.50%1/10W
R783	1-216-089-91	RES,CHIP	47K	5% 1/10W
R784	1-216-295-91	SHORT	0	
R785	1-216-089-91	RES,CHIP	47K	5% 1/10W
R786	1-216-089-91	RES,CHIP	47K	5% 1/10W
R787	1-216-295-91	SHORT	0	
R788	1-216-121-91	RES,CHIP	1M	5% 1/10W
R789	1-216-624-11	METAL CHIP	75	0.50%1/10W
R791	1-216-073-00	RES,CHIP	10K	5% 1/10W
R792	1-216-627-11	METAL CHIP	100	0.50%1/10W
R793	1-216-627-11	METAL CHIP	100	0.50%1/10W
R794	1-216-627-11	METAL CHIP	100	0.50%1/10W
R795	1-216-641-11	METAL CHIP	390	0.50%1/10W
R796	1-216-641-11	METAL CHIP	390	0.50%1/10W
R797	1-216-641-11	METAL CHIP	390	0.50%1/10W
R798	1-216-668-11	METAL CHIP	5.1K	0.50%1/10W
R799	1-216-668-11	METAL CHIP	5.1K	0.50%1/10W
R800	1-216-668-11	METAL CHIP	5.1K	0.50%1/10W
R801	1-216-663-11	METAL CHIP	3.3K	0.50%1/10W
R802	1-216-663-11	METAL CHIP	3.3K	0.50%1/10W

REF.NO.	PART NO.	DESCRIPTION		REMARK
R803	1-216-663-11	METAL CHIP	3.3K	0.50%1/10W
R804	1-216-663-11	METAL CHIP	3.3K	0.50%1/10W
R805	1-216-663-11	METAL CHIP	3.3K	0.50%1/10W
R806	1-216-663-11	METAL CHIP	3.3K	0.50%1/10W
R807	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
R808	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R809	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R810	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R811	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R812	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R813	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R814	1-216-639-11	METAL CHIP	330	0.50%1/10W
R815	1-216-639-11	METAL CHIP	330	0.50%1/10W
R816	1-216-639-11	METAL CHIP	330	0.50%1/10W
R817	1-216-639-11	METAL CHIP	330	0.50%1/10W
R818	1-216-639-11	METAL CHIP	330	0.50%1/10W
R819	1-216-639-11	METAL CHIP	330	0.50%1/10W
R820	1-216-639-11	METAL CHIP	330	0.50%1/10W
R821	1-216-639-11	METAL CHIP	330	0.50%1/10W
R822	1-216-639-11	METAL CHIP	330	0.50%1/10W
R823	1-216-639-11	METAL CHIP	330	0.50%1/10W
R824	1-216-639-11	METAL CHIP	330	0.50%1/10W
R825	1-216-639-11	METAL CHIP	330	0.50%1/10W
R826	1-216-627-11	METAL CHIP	100	0.50%1/10W
R827	1-216-627-11	METAL CHIP	100	0.50%1/10W
R828	1-216-627-11	METAL CHIP	100	0.50%1/10W
R829	1-216-627-11	METAL CHIP	100	0.50%1/10W
R830	1-216-627-11	METAL CHIP	100	0.50%1/10W
R831	1-216-627-11	METAL CHIP	100	0.50%1/10W
R832	1-216-641-11	METAL CHIP	390	0.50%1/10W
R833	1-216-641-11	METAL CHIP	390	0.50%1/10W
R834	1-216-641-11	METAL CHIP	390	0.50%1/10W
R835	1-216-641-11	METAL CHIP	390	0.50%1/10W
R836	1-216-641-11	METAL CHIP	390	0.50%1/10W
R837	1-216-641-11	METAL CHIP	390	0.50%1/10W
R838	1-216-668-11	METAL CHIP	5.1K	0.50%1/10W
R839	1-216-668-11	METAL CHIP	5.1K	0.50%1/10W
R840	1-216-668-11	METAL CHIP	5.1K	0.50%1/10W
R841	1-216-668-11	METAL CHIP	5.1K	0.50%1/10W
R842	1-216-668-11	METAL CHIP	5.1K	0.50%1/10W
R843	1-216-668-11	METAL CHIP	5.1K	0.50%1/10W
R844	1-216-665-11	METAL CHIP	3.9K	0.50%1/10W
R845	1-216-665-11	METAL CHIP	3.9K	0.50%1/10W
R846	1-216-665-11	METAL CHIP	3.9K	0.50%1/10W
R847	1-216-665-11	METAL CHIP	3.9K	0.50%1/10W
R848	1-216-665-11	METAL CHIP	3.9K	0.50%1/10W
R849	1-216-665-11	METAL CHIP	3.9K	0.50%1/10W
R851	1-216-641-11	METAL CHIP	390	0.50%1/10W
R853	1-216-641-11	METAL CHIP	390	0.50%1/10W
R855	1-216-641-11	METAL CHIP	390	0.50%1/10W
R857	1-216-089-91	RES,CHIP	47K	5% 1/10W
R858	1-216-081-00	RES,CHIP	22K	5% 1/10W
R859	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
R860	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
R861	1-216-017-91	RES,CHIP	47	5% 1/10W
R862	1-216-017-91	RES,CHIP	47	5% 1/10W
R863	1-216-017-91	RES,CHIP	47	5% 1/10W
R864	1-216-089-91	RES,CHIP	47K	5% 1/10W
R865	1-216-081-00	RES,CHIP	22K	5% 1/10W
R866	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
R867	1-216-089-91	RES,CHIP	47K	5% 1/10W
R868	1-216-089-91	RES,CHIP	47K	5% 1/10W
R869	1-216-089-91	RES,CHIP	47K	5% 1/10W
R870	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
R871	1-216-341-11	METAL OXIDE	0.22	5% 1W F
R872	1-216-341-11	METAL OXIDE	0.22	5% 1W F
R873	1-216-049-91	RES,CHIP	1K	5% 1/10W
R874	1-216-049-91	RES,CHIP	1K	5% 1/10W
R875	1-216-049-91	RES,CHIP	1K	5% 1/10W
R883	1-216-643-11	METAL CHIP	470	0.50%1/10W
R884	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R885	1-216-643-11	METAL CHIP	470	0.50%1/10W
R888	1-216-643-11	METAL CHIP	470	0.50%1/10W
R891	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R893	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R897	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R899	1-216-121-91	RES,CHIP	1M	5% 1/10W
R909	1-216-691-11	METAL CHIP	47K	0.50%1/10W
R910	1-216-624-11	METAL CHIP	75	0.50%1/10W
R911	1-216-624-11	METAL CHIP	75	0.50%1/10W
R912	1-216-682-11	METAL CHIP	20K	0.50%1/10W
R913	1-216-624-11	METAL CHIP	75	0.50%1/10W
R914	1-216-121-91	RES,CHIP	1M	5% 1/10W
R915	1-216-121-91	RES,CHIP	1M	5% 1/10W
R916	1-216-121-91	RES,CHIP	1M	5% 1/10W
R919	1-216-624-11	METAL CHIP	75	0.50%1/10W
R920	1-216-073-00	RES,CHIP	10K	5% 1/10W
R922	1-216-624-11	METAL CHIP	75	0.50%1/10W
R923	1-216-624-11	METAL CHIP	75	0.50%1/10W
R927	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R931	1-216-121-91	RES,CHIP	1M	5% 1/10W
R932	1-216-624-11	METAL CHIP	75	0.50%1/10W
R933	1-216-619-11	METAL CHIP	47	0.50%1/10W
R934	1-216-624-11	METAL CHIP	75	0.50%1/10W
R935	1-216-624-11	METAL CHIP	75	0.50%1/10W
R936	1-216-685-11	METAL CHIP	27K	0.50%1/10W
R937	1-216-295-91	SHORT	0	
R938	1-216-685-11	METAL CHIP	27K	0.50%1/10W
R939	1-216-679-11	METAL CHIP	15K	0.50%1/10W
R944	1-216-097-91	RES,CHIP	100K	5% 1/10W
R945	1-216-097-91	RES,CHIP	100K	5% 1/10W
R946	1-216-097-91	RES,CHIP	100K	5% 1/10W
R972	1-216-047-91	RES,CHIP	820	5% 1/10W
R973	1-216-047-91	RES,CHIP	820	5% 1/10W
R974	1-216-041-00	RES,CHIP	470	5% 1/10W
R975	1-216-295-91	SHORT	0	
R977	1-216-671-11	METAL CHIP	6.8K	0.50%1/10W
R978	1-216-671-11	METAL CHIP	6.8K	0.50%1/10W
R979	1-216-671-11	METAL CHIP	6.8K	0.50%1/10W
R980	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R981	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R982	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R986	1-216-027-00	RES,CHIP	120	5%	1/10W
R987	1-216-027-00	RES,CHIP	120	5%	1/10W
R988	1-216-027-00	RES,CHIP	120	5%	1/10W
R989	1-216-027-00	RES,CHIP	120	5%	1/10W
R990	1-216-027-00	RES,CHIP	120	5%	1/10W
R991	1-216-027-00	RES,CHIP	120	5%	1/10W
R1001	1-216-077-00	RES,CHIP	15K	5%	1/10W
R1002	1-216-079-00	RES,CHIP	18K	5%	1/10W
R1003	1-216-001-00	RES,CHIP	10	5%	1/10W
R1004	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R1005	1-216-043-91	RES,CHIP	560	5%	1/10W
R1006	1-216-001-00	RES,CHIP	10	5%	1/10W
R1007	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1008	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R1009	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R1010	1-216-045-00	RES,CHIP	680	5%	1/10W
R1011	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1012	1-216-025-91	RES,CHIP	100	5%	1/10W
R1013	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1014	1-216-041-00	RES,CHIP	470	5%	1/10W
R1015	1-216-077-00	RES,CHIP	15K	5%	1/10W
R1016	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1017	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1018	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R1019	1-216-025-91	RES,CHIP	100	5%	1/10W
R1020	1-216-029-00	RES,CHIP	150	5%	1/10W
R1021	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1022	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1023	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R1024	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1025	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1026	1-216-017-91	RES,CHIP	47	5%	1/10W
R1027	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1028	1-216-023-00	RES,CHIP	82	5%	1/10W
R1029	1-216-023-00	RES,CHIP	82	5%	1/10W
R1030	1-216-023-00	RES,CHIP	82	5%	1/10W
R1031	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1032	1-216-650-11	METAL CHIP	910	0.50%	1/10W
R1033	1-216-031-00	RES,CHIP	180	5%	1/10W
R1034	1-216-664-11	METAL CHIP	3.6K	0.50%	1/10W
R1035	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1036	1-216-650-11	METAL CHIP	910	0.50%	1/10W
R1037	1-216-664-11	METAL CHIP	3.6K	0.50%	1/10W
R1038	1-216-025-91	RES,CHIP	100	5%	1/10W
R1039	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1040	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1041	1-216-295-91	SHORT	0		
R1042	1-216-634-11	METAL CHIP	200	0.50%	1/10W
R1043	1-216-656-11	METAL CHIP	1.6K	0.50%	1/10W
R1044	1-216-634-11	METAL CHIP	200	0.50%	1/10W
R1045	1-216-025-91	RES,CHIP	100	5%	1/10W
R1046	1-216-295-91	SHORT	0		
R1047	1-216-017-91	RES,CHIP	47	5%	1/10W
R1048	1-216-664-11	METAL CHIP	3.6K	0.50%	1/10W
R1049	1-216-650-11	METAL CHIP	910	0.50%	1/10W
R1050	1-216-077-00	“RES,CHIP”	15K	5%	1/10W
R1051	1-216-075-00	RES,CHIP	12K	5%	1/10W
R1052	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R1053	1-216-043-91	RES,CHIP	560	5%	1/10W
R1054	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1055	1-216-031-00	RES,CHIP	180	5%	1/10W
R1056	1-216-039-00	RES,CHIP	390	5%	1/10W
R1057	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1058	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1059	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1060	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1061	1-216-079-00	RES,CHIP	18K	5%	1/10W
R1062	1-216-025-91	RES,CHIP	100	5%	1/10W
R1063	1-216-017-91	RES,CHIP	47	5%	1/10W
R1064	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1065	1-216-077-00	RES,CHIP	15K	5%	1/10W
R1066	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1067	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1068	1-216-043-91	RES,CHIP	560	5%	1/10W
R1069	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1070	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1071	1-216-043-91	RES,CHIP	560	5%	1/10W
R1072	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1073	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1074	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1075	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1076	1-216-025-91	RES,CHIP	100	5%	1/10W
R1077	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1078	1-216-017-91	RES,CHIP	47	5%	1/10W
R1079	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R1080	1-216-295-91	SHORT	0		
R1081	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1082	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1083	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1084	1-216-033-00	RES,CHIP	220	5%	1/10W
R1085	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1086	1-216-033-00	RES,CHIP	220	5%	1/10W
R1087	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1088	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1089	1-216-133-00	RES,CHIP	3.3M	5%	1/10W
R1090	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1091	1-216-644-11	METAL CHIP	510	0.50%	1/10W
R1092	1-216-627-11	METAL CHIP	100	0.50%	1/10W
R1093	1-216-023-00	RES,CHIP	82	5%	1/10W
R1094	1-216-029-00	RES,CHIP	150	5%	1/10W
R1095	1-216-041-00	RES,CHIP	470	5%	1/10W
R1096	1-216-019-00	RES,CHIP	56	5%	1/10W
R1097	1-216-009-00	RES,CHIP	22	5%	1/10W
R1098	1-216-039-00	RES,CHIP	390	5%	1/10W
R1099	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1100	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R1101	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1102	1-216-031-00	RES,CHIP	180	5%	1/10W
R1103	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R1104	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R1105	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1106	1-216-073-00	RES,CHIP	10K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION		REMARK
R1107	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1108	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1110	1-216-017-91	RES,CHIP	47	5% 1/10W
R1111	1-216-017-91	RES,CHIP	47	5% 1/10W
R1112	1-216-017-91	RES,CHIP	47	5% 1/10W
R1113	1-216-017-91	RES,CHIP	47	5% 1/10W
R1114	1-216-017-91	RES,CHIP	47	5% 1/10W
R1115	1-216-017-91	RES,CHIP	47	5% 1/10W
R1116	1-216-017-91	RES,CHIP	47	5% 1/10W
R1117	1-216-017-91	RES,CHIP	47	5% 1/10W
R1118	1-216-017-91	RES,CHIP	47	5% 1/10W
R1119	1-216-017-91	RES,CHIP	47	5% 1/10W
R1120	1-216-017-91	RES,CHIP	47	5% 1/10W
R1121	1-216-017-91	RES,CHIP	47	5% 1/10W
R1122	1-216-017-91	RES,CHIP	47	5% 1/10W
R1123	1-216-017-91	RES,CHIP	47	5% 1/10W
R1124	1-216-017-91	RES,CHIP	47	5% 1/10W
R1125	1-216-017-91	RES,CHIP	47	5% 1/10W
R1126	1-216-017-91	RES,CHIP	47	5% 1/10W
R1127	1-216-017-91	RES,CHIP	47	5% 1/10W
R1128	1-216-017-91	RES,CHIP	47	5% 1/10W
R1129	1-216-017-91	RES,CHIP	47	5% 1/10W
R1130	1-216-017-91	RES,CHIP	47	5% 1/10W
R1131	1-216-017-91	RES,CHIP	47	5% 1/10W
R1132	1-216-017-91	RES,CHIP	47	5% 1/10W
R1133	1-216-017-91	RES,CHIP	47	5% 1/10W
R1134	1-216-607-11	METAL CHIP	15	0.50%1/10W
R1135	1-216-033-00	RES,CHIP	220	5% 1/10W
R1140	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1141	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1142	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1143	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1144	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1145	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1146	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1147	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1148	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1149	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1150	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1151	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1152	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1153	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1154	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1155	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1156	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1157	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1158	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1159	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1160	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1161	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1162	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1163	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1164	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1165	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1166	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1167	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1168	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1169	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1170	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1171	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1200	1-216-041-00	RES,CHIP	470	5% 1/10W
R1201	1-216-055-00	RES,CHIP	1.8K	5% 1/10W
R1202	1-216-061-00	RES,CHIP	3.3K	5% 1/10W
R1203	1-216-645-11	METAL CHIP	560	0.50%1/10W
R1204	1-216-687-11	METAL CHIP	33K	0.50%1/10W
R1205	1-216-681-11	METAL CHIP	18K	0.50%1/10W
R1206	1-216-049-91	RES,CHIP	1K	5% 1/10W
R1207	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1208	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1210	1-216-049-91	RES,CHIP	1K	5% 1/10W
R1211	1-216-095-00	RES,CHIP	82K	5% 1/10W
R1212	1-216-095-00	RES,CHIP	82K	5% 1/10W
R1213	1-216-081-00	RES,CHIP	22K	5% 1/10W
R1214	1-216-069-00	RES,CHIP	6.8K	5% 1/10W
R1215	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1216	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1217	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1218	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1219	1-216-689-11	RES,CHIP	39K	5% 1/10W
R1220	1-216-689-11	RES,CHIP	39K	5% 1/10W
R1221	1-216-093-00	RES,CHIP	68K	5% 1/10W
R1222	1-216-093-00	RES,CHIP	68K	5% 1/10W
R1223	1-216-081-00	RES,CHIP	22K	5% 1/10W
R1224	1-216-081-00	RES,CHIP	22K	5% 1/10W
R1225	1-216-081-00	RES,CHIP	22K	5% 1/10W
R1226	1-216-081-00	RES,CHIP	22K	5% 1/10W
R1227	1-216-081-00	RES,CHIP	22K	5% 1/10W
R1228	1-216-081-00	RES,CHIP	22K	5% 1/10W
R1229	1-216-089-91	RES,CHIP	47K	5% 1/10W
R1230	1-216-089-91	RES,CHIP	47K	5% 1/10W
R1231	1-216-033-00	RES,CHIP	220	5% 1/10W
R1232	1-216-081-00	RES,CHIP	22K	5% 1/10W
R1233	1-216-001-00	RES,CHIP	10	5% 1/10W
R1234	1-216-049-91	RES,CHIP	1K	5% 1/10W
R1235	1-216-089-91	RES,CHIP	47K	5% 1/10W
R1236	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1237	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1238	1-216-049-91	RES,CHIP	1K	5% 1/10W
R1301	1-216-681-11	METAL CHIP	18K	0.50%1/10W
R1302	1-216-677-11	METAL CHIP	12K	0.50%1/10W
R1303	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1304	1-216-653-11	METAL CHIP	1.2K	0.50%1/10W
R1305	1-216-635-11	METAL CHIP	220	0.50%1/10W
R1306	1-216-635-11	METAL CHIP	220	0.50%1/10W
R1307	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1308	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1309	1-216-035-00	RES,CHIP	270	5% 1/10W
R1310	1-216-649-11	METAL CHIP	820	0.50%1/10W
R1311	1-216-624-11	METAL CHIP	75	0.50%1/10W
R1312	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1313	1-216-685-11	METAL CHIP	27K	0.50%1/10W
R1314	1-216-640-11	METAL CHIP	360	0.50%1/10W

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REF.NO.	PART NO.	DESCRIPTION		REMARK
R1315	1-216-677-11	METAL CHIP	12K	0.50% 1/10W
R1316	1-216-663-11	METAL CHIP	3.3K	0.50% 1/10W
R1317	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R1318	1-216-681-11	METAL CHIP	18K	0.50% 1/10W
R1319	1-216-677-11	METAL CHIP	12K	0.50% 1/10W
R1320	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R1321	1-216-647-11	METAL CHIP	680	0.50% 1/10W
R1322	1-216-623-11	METAL CHIP	68	0.50% 1/10W
R1323	1-216-649-11	METAL CHIP	820	0.50% 1/10W
R1324	1-216-677-11	METAL CHIP	12K	0.50% 1/10W
R1325	1-216-681-11	METAL CHIP	18K	0.50% 1/10W
R1326	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R1327	1-216-631-11	METAL CHIP	150	0.50% 1/10W
R1328	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R1329	1-216-681-11	METAL CHIP	18K	0.50% 1/10W
R1330	1-216-677-11	METAL CHIP	12K	0.50% 1/10W
R1331	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R1332	1-216-662-11	METAL CHIP	3K	0.50% 1/10W
R1333	1-216-649-11	METAL CHIP	820	0.50% 1/10W
R1334	1-216-635-11	METAL CHIP	220	0.50% 1/10W
R1335	1-216-641-11	METAL CHIP	390	0.50% 1/10W
R1336	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R1337	1-216-685-11	METAL CHIP	27K	0.50% 1/10W
R1338	1-216-677-11	METAL CHIP	12K	0.50% 1/10W
R1339	1-216-663-11	METAL CHIP	3.3K	0.50% 1/10W
R1340	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R1341	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R1342	1-216-647-11	METAL CHIP	680	0.50% 1/10W
R1343	1-216-647-11	METAL CHIP	680	0.50% 1/10W
R1344	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R1345	1-216-697-91	METAL CHIP	82K	0.50% 1/10W
R1346	1-216-065-91	RES,CHIP	4.7K	5% 1/10W
R1500	1-216-657-11	METAL CHIP	1.8K	0.50% 1/10W
R1501	1-216-117-00	RES,CHIP	680K	5% 1/10W
R1506	1-216-017-91	RES,CHIP	47	5% 1/10W
R1507	1-216-079-00	RES,CHIP	18K	5% 1/10W
R1508	1-216-077-00	RES,CHIP	15K	5% 1/10W
R1509	1-216-025-91	RES,CHIP	100	5% 1/10W
R1510	1-216-055-00	RES,CHIP	1.8K	5% 1/10W
R1511	1-216-001-00	RES,CHIP	10	5% 1/10W
R1512	1-216-043-91	RES,CHIP	560	5% 1/10W
R1513	1-216-061-00	RES,CHIP	3.3K	5% 1/10W
R1514	1-216-041-00	RES,CHIP	470	5% 1/10W
R1515	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1516	1-216-077-00	RES,CHIP	15K	5% 1/10W
R1517	1-216-067-00	RES,CHIP	5.6K	5% 1/10W
R1518	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R1519	1-216-047-91	RES,CHIP	820	5% 1/10W
R1520	1-216-001-00	RES,CHIP	10	5% 1/10W
R1521	1-216-295-91	SHORT	0	
R1523	1-216-653-11	METAL CHIP	1.2K	0.50% 1/10W
R1524	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R1525	1-216-049-91	RES,CHIP	1K	5% 1/10W
R1526	1-216-295-91	SHORT	0	
R1527	1-216-049-91	RES,CHIP	1K	5% 1/10W
R1528	1-216-089-91	RES,CHIP	47K	5% 1/10W
R1529	1-216-033-00	RES,CHIP	220	5% 1/10W
R1530	1-216-089-91	RES,CHIP	47K	5% 1/10W
R1531	1-216-295-91	SHORT	0	
R1532	1-216-033-00	RES,CHIP	220	5% 1/10W
R1533	1-216-133-00	RES,CHIP	3.3M	5% 1/10W
R1534	1-216-644-11	METAL CHIP	510	0.50% 1/10W
R1535	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R1541	1-216-097-91	RES,CHIP	100K	5% 1/10W
R1542	1-216-059-00	RES,CHIP	2.7K	5% 1/10W
R1543	1-216-031-00	RES,CHIP	180	5% 1/10W
R1544	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R1545	1-216-071-00	RES,CHIP	8.2K	5% 1/10W
R1548	1-218-755-11	METAL CHIP	130K	0.50% 1/10W
R1549	1-216-113-00	RES,CHIP	470K	5% 1/10W
R1550	1-216-113-00	RES,CHIP	470K	5% 1/10W
R1551	1-216-037-00	RES,CHIP	330	5% 1/10W
R1552	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1553	1-216-095-00	RES,CHIP	82K	5% 1/10W
R1554	1-216-121-91	RES,CHIP	1M	5% 1/10W
R1555	1-216-121-91	RES,CHIP	1M	5% 1/10W
R1556	1-216-089-91	RES,CHIP	47K	5% 1/10W
R1557	1-216-089-91	RES,CHIP	47K	5% 1/10W
R1558	1-216-295-91	SHORT	0	
R1564	1-218-761-11	METAL CHIP	240K	0.50% 1/10W
R1565	1-216-681-11	METAL CHIP	18K	0.50% 1/10W
R1566	1-216-113-00	RES,CHIP	470K	5% 1/10W
R1567	1-216-653-11	METAL CHIP	1.2K	0.50% 1/10W
R1568	1-216-049-91	RES,CHIP	1K	5% 1/10W
R1569	1-216-089-91	RES,CHIP	47K	5% 1/10W
R1570	1-216-025-91	RES,CHIP	100	5% 1/10W

<VARIABLE RESISTOR>

RV701	1-238-087-11	RES, ADJ CERMET 1K (TRACON Y IN)
RV703	1-238-090-11	RES, ADJ CERMET 10K (WB Y IN)
RV704	1-238-087-11	RES, ADJ CERMET 1K (TRACON Y IN)
RV705	1-238-087-11	RES, ADJ CERMET 1K
RV706	1-238-087-11	RES, ADJ CERMET 1K (TRACON Y IN)
RV1001	1-238-240-11	RES, ADJ, CERMET 220
RV1002	1-238-240-11	RES, ADJ, CERMET 220
RV1301	1-238-086-11	RES, ADJ, CERMET 470 (WB Y IN)
RV1302	1-238-086-11	RES, ADJ, CERMET 470 (WB Y IN)

<TEST PIN>

TP1	1-535-757-11	CHIP, CHECKER
TP2	1-535-757-11	CHIP, CHECKER
TP3	1-535-757-11	CHIP, CHECKER
TP4	1-535-757-11	CHIP, CHECKER
TP5	1-535-757-11	CHIP, CHECKER
TP6	1-535-757-11	CHIP, CHECKER
TP7	1-535-757-11	CHIP, CHECKER
TP8	1-535-757-11	CHIP, CHECKER
TP9	1-535-757-11	CHIP, CHECKER
TP10	1-535-757-11	CHIP, CHECKER
TP11	1-535-757-11	CHIP, CHECKER

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK
TP12	1-535-757-11	CHIP, CHECKER	
TP13	1-535-757-11	CHIP, CHECKER	
TP14	1-535-757-11	CHIP, CHECKER	
TP71	1-535-757-11	CHIP, CHECKER	
TP72	1-535-757-11	CHIP, CHECKER	
TP73	1-535-757-11	CHIP, CHECKER	
TP101	1-535-757-11	CHIP, CHECKER	
TP102	1-535-757-11	CHIP, CHECKER	
TP103	1-535-757-11	CHIP, CHECKER	
TP104	1-535-757-11	CHIP, CHECKER	
TP105	1-535-757-11	CHIP, CHECKER	
TP106	1-535-757-11	CHIP, CHECKER	
TP107	1-535-757-11	CHIP, CHECKER	
TP109	1-535-757-11	CHIP, CHECKER	
TP111	1-535-757-11	CHIP, CHECKER	
TP112	1-535-757-11	CHIP, CHECKER	
TP200	1-535-757-11	CHIP, CHECKER	
TP301	1-535-757-11	CHIP, CHECKER	
TP302	1-535-757-11	CHIP, CHECKER	
TP303	1-535-757-11	CHIP, CHECKER	
TP304	1-535-757-11	CHIP, CHECKER	
TP305	1-535-757-11	CHIP, CHECKER	
TP306	1-535-757-11	CHIP, CHECKER	
TP307	1-535-757-11	CHIP, CHECKER	
TP501	1-535-757-11	CHIP, CHECKER	
TP502	1-535-757-11	CHIP, CHECKER	
TP503	1-535-757-11	CHIP, CHECKER	
TP701	1-535-757-11	CHIP, CHECKER	
TP702	1-535-757-11	CHIP, CHECKER	
TP703	1-535-757-11	CHIP, CHECKER	
TP704	1-535-757-11	CHIP, CHECKER	
TP705	1-535-757-11	CHIP, CHECKER	
TP706	1-535-757-11	CHIP, CHECKER	
TP707	1-535-757-11	CHIP, CHECKER	
TP708	1-535-757-11	CHIP, CHECKER	
TP709	1-535-757-11	CHIP, CHECKER	
TP710	1-535-757-11	CHIP, CHECKER	
TP711	1-535-757-11	CHIP, CHECKER	
TP712	1-535-757-11	CHIP, CHECKER	
TP713	1-535-757-11	CHIP, CHECKER	
TP714	1-535-757-11	CHIP, CHECKER	
TP1001	1-535-757-11	CHIP, CHECKER	
TP1500	1-535-757-11	CHIP, CHECKER	
TP1501	1-535-757-11	CHIP, CHECKER	
TP1502	1-535-757-11	CHIP, CHECKER	
		<CRYSTAL>	
X250	1-760-040-11	VIBRATOR, CRYSTAL	
X251	1-767-640-11	VIBRATOR, CRYSTAL	
X301	1-577-611-11	OSCILALTOR, CERAMIC	
X302	1-567-504-11	OSCILLATOR, CRYSTAL	
X303	1-567-505-11	OSCILLATOR, CRYSTAL	
X701	1-527-722-00	VIBRATOR, CRYSTAL	
X1001	1-579-057-11	VIBRATOR, CRYSTAL	
X1002	1-527-722-00	VIBRATOR, CRYSTAL	
X1003	1-577-611-11	OSCILALTOR, CERAMIC	
X1004	1-579-583-11	VIBRATOR, CERAMIC	
X1500	1-527-722-00	VIBRATOR, CRYSTAL	
X1501	1-579-057-11	VIBRATOR, CRYSTAL	
X1502	1-579-583-11	VIBRATOR, CERAMIC	
X1503	1-577-611-11	OSCILALTOR, CERAMIC	

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* A-1316-429-AG BOARD, COMPLETE
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4-382-854-11 SCREW (M3X10), P, SW (+)
(Q601, Q602, D651, D652)

<CAPACITOR>

C600⚠	1-115-165-11	FILM	0.1MF	20%	275V
C601⚠	1-113-511-11	FILM	0.47MF	20%	275V
C602⚠	1-113-915-51	CERAMIC	0.001MF	20%	250V
C603⚠	1-113-915-51	CERAMIC	0.001MF	20%	250V
C604	1-125-533-11	ELECT(BLOCK)	100MF	20%	400V
C605	1-162-117-00	CERAMIC	100PF	10%	500V
C606	1-162-117-00	CERAMIC	100PF	10%	500V
C607	1-136-169-00	FILM	0.22MF	5%	50V
C608	1-136-169-00	FILM	0.22MF	5%	50V
C609	1-136-165-00	FILM	0.1MF	5%	50V
C610	1-136-165-00	FILM	0.1MF	5%	50V
C611	1-162-117-00	CERAMIC	100PF	10%	500V
C612	1-115-348-81	FILM	0.0056MF	2%	630V
C650	1-126-960-11	ELECT	1MF	20%	50V
C651	1-164-344-11	CERAMIC CHIP	0.068MF	10%	25V
C652	1-163-143-00	CERAMIC CHIP	0.0012MF	5%	50V
C653	1-107-874-11	ELECT	10000MF	20%	6.3V
C654	1-107-877-11	ELECT	1000MF	20%	10V
C655	1-126-927-11	ELECT	2200MF	20%	10V
C656	1-126-926-11	ELECT	1000MF	20%	10V
C657	1-107-914-11	ELECT	1000MF	20%	25V
C658	1-107-888-11	ELECT	47MF	20%	25V
C661	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C662	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C663	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C664	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C670	1-104-664-11	ELECT	47MF	20%	25V
C671	1-104-664-11	ELECT	47MF	20%	25V
C680	1-126-960-11	ELECT	1MF	20%	50V

<CONNECTOR>

CN601⚠	*1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P
CN602	1-506-476-11	PIN, CONNECTOR 11P
CN603*	1-564-001-11	PIN, CONNECTOR 2P

<DIODE>

D601⚠	8-719-045-35	DIODE S1WB60B-S-TR

G

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
D602	8-719-045-99	ZENER DIODE RD2.2M-T1B	
D603	8-719-045-99	ZENER DIODE RD2.2M-T1B	
D604	8-719-404-49	DIODE MA111	
D605	8-719-045-99	ZENER DIODE RD2.2M-T1B	
D606	8-719-045-99	ZENER DIODE RD2.2M-T1B	
D607	8-719-404-49	DIODE MA111	
D651	8-719-048-60	DIODE F10P03QL	
D652	8-719-510-13	DIODE D10SC4MR	
D653	8-719-510-02	DIODE D1NS4	
D654	8-719-510-02	DIODE D1NS4	
D655	8-719-160-68	ZENER DIODE RD18FB2	
D671	8-719-051-01	DIODE CL-170HR-CD-T	
D672	8-719-053-31	DIODE CL-170YG-CD-T	
D673	8-719-404-49	DIODE MA111	
		<FUSE>	
F601⚠	1-576-228-11	FUSE (H.B.C.) (2A/250V)	
	1-533-223-11	CLIP, FUSE; F601	
*	4-052-843-01	COVER, FUSE; F601	
		<FERRITE BEAD>	
FB601	1-410-396-41	FERRITE 0.45UH	
FB602	1-410-396-41	FERRITE 0.45UH	
FB603	1-410-396-41	FERRITE 0.45UH	
FB604	1-410-396-41	FERRITE 0.45UH	
		<IC>	
IC650	8-759-198-31	IC UPC1093J-1-T	
IC670	8-759-100-93	IC UPC393G2	
IC671	8-759-144-82	IC UPC2405HF	
IC672	8-759-346-27	IC LM45BIM3X	
		<COIL>	
L651	1-414-158-11	INDUCTOR 2.2UH	
L652	1-412-523-41	INDUCTOR 6.8UH	
L653	1-412-523-41	INDUCTOR 6.8UH	
		<TRANSISTOR>	
Q601	8-729-026-13	TRANSISTOR 2SC4833S-P2	
Q602	8-729-026-13	TRANSISTOR 2SC4833S-P2	
Q650	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q660	8-729-019-42	TRANSISTOR 2SK2084STL	
Q661	8-729-019-42	TRANSISTOR 2SK2084STL	
Q662	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q663	8-729-824-34	TRANSISTOR 2SJ187	
Q664	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q670	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q671	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q672	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<RESISTOR>			
R600⚠	1-202-881-51	SOLID	470K	20%	1/2W
R601	1-202-933-61	FUSIBLE	0.1	10%	1/2W F
R602	1-220-318-11	RES,CHIP	270K	5%	1/4W
R603	1-220-318-11	RES,CHIP	270K	5%	1/4W
R604	1-220-318-11	RES,CHIP	270K	5%	1/4W
R605	1-220-318-11	RES,CHIP	270K	5%	1/4W
R606	1-220-233-11	RES,CHIP	3.9	10%	1/4W
R607	1-220-233-11	RES,CHIP	3.9	10%	1/4W
R610	1-212-942-00	FUSIBLE	2.2	5%	1/2W F
R650	1-216-025-91	RES,CHIP	100	5%	1/10W
R651	1-216-073-00	RES,CHIP	10K	5%	1/10W
R655	1-216-097-91	RES,CHIP	100K	5%	1/10W
R656	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R657	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R658	1-216-025-91	RES,CHIP	100	5%	1/10W
R659	1-216-049-91	RES,CHIP	1K	5%	1/10W
R661	1-219-116-11	METAL	0.01	10%	2W
R662	1-216-073-00	RES,CHIP	10K	5%	1/10W
R663	1-216-073-00	RES,CHIP	10K	5%	1/10W
R664	1-216-073-00	RES,CHIP	10K	5%	1/10W
R665	1-216-073-00	RES,CHIP	10K	5%	1/10W
R666	1-207-616-00	WIREWOUND	0.47	10%	2W F
R667	1-216-049-91	RES,CHIP	1K	5%	1/10W
R668	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R669	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R670	1-216-049-91	RES,CHIP	1K	5%	1/10W
R671	1-216-393-00	WIREWOUND	2.2	10%	2W F
R672	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R673	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R674	1-216-049-91	RES,CHIP	1K	5%	1/10W
R676	1-216-049-91	RES,CHIP	1K	5%	1/10W
R677	1-216-049-91	RES,CHIP	1K	5%	1/10W
R678	1-216-033-00	RES,CHIP	220	5%	1/10W
R679	1-216-049-91	RES,CHIP	1K	5%	1/10W
R680	1-216-073-00	RES,CHIP	10K	5%	1/10W
R681	1-216-025-91	RES,CHIP	100	5%	1/10W
R682	1-216-025-91	RES,CHIP	100	5%	1/10W
R683	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R684	1-216-049-91	RES,CHIP	1K	5%	1/10W
R685	1-216-041-00	RES,CHIP	470	5%	1/10W
R686	1-216-041-00	RES,CHIP	470	5%	1/10W
R687	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R688	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R690	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R691	1-216-049-91	RES,CHIP	1K	5%	1/10W
		<TRANSFORMER>			
T601⚠	1-424-117-11	FILTER, LINE			
T602	1-427-864-11	TRANSFORMER, CONVERTER (PRT)			
T603	1-429-291-11	TRANSFORMER, CONVERTER (PIT)			

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<VARISTOR>	
VDR6011	810-974-21	VARISTOR	

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H1 BOARD, COMPLETE
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REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CAPACITOR>	
C101	1-124-779-00	ELECT CHIP 10MF 20% 16V	
C102	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C103	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C104	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C105	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C106	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C107	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C108	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C109	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C110	1-124-779-00	ELECT CHIP 10MF 20% 16V	
C111	1-163-235-11	CERAMIC CHIP 22PF 5% 50V	
C112	1-163-235-11	CERAMIC CHIP 22PF 5% 50V	
C114	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C115	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C116	1-124-779-00	ELECT CHIP 10MF 20% 16V	
C117	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
C118	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
C119	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
C120	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
C121	1-124-779-00	ELECT CHIP 10MF 20% 16V	
C122	1-124-779-00	ELECT CHIP 10MF 20% 16V	
C123	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C124	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C130	1-124-778-00	ELECT CHIP 22MF 20% 6.3V	
		<CONNECTOR>	
CN101	1-774-117-21	PIN, CONNECTOR 12P	
CN103	1-774-198-11	CONNECTOR, FPC (ZIF) 10P	
		<DIODE>	
D113	8-719-800-76	DIODE 1SS226	
D114	8-719-800-76	DIODE 1SS226	
D115	8-719-800-76	DIODE 1SS226	
D116	8-719-800-76	DIODE 1SS226	
D117	8-719-800-76	DIODE 1SS226	
D118	8-719-800-76	DIODE 1SS226	
D119	8-719-800-76	DIODE 1SS226	
D120	8-719-404-49	DIODE MA111	
D121	8-719-404-49	DIODE MA111	
D122	8-719-404-49	DIODE MA111	
D123	8-719-404-49	DIODE MA111	
D124	8-719-404-49	DIODE MA111	
D125	8-719-404-49	DIODE MA111	
D126	8-719-404-49	DIODE MA111	
D127	8-719-404-49	DIODE MA111	
D128	8-719-033-86	DIODE CL-170D-CD-T	
D129	8-719-033-86	DIODE CL-170D-CD-T	
D130	8-719-033-86	DIODE CL-170D-CD-T	
D131	8-719-033-86	DIODE CL-170D-CD-T	
D132	8-719-033-86	DIODE CL-170D-CD-T	
D133	8-719-033-86	DIODE CL-170D-CD-T	
D134	8-719-033-86	DIODE CL-170D-CD-T	
D135	8-719-033-86	DIODE CL-170D-CD-T	
D136	8-719-033-86	DIODE CL-170D-CD-T	
D137	8-719-033-86	DIODE CL-170D-CD-T	
D138	8-719-033-86	DIODE CL-170D-CD-T	
D139	8-719-033-86	DIODE CL-170D-CD-T	
D140	8-719-033-86	DIODE CL-170D-CD-T	
D141	8-719-033-86	DIODE CL-170D-CD-T	
D142	8-719-053-31	DIODE CL-170YG-CD-T	
D143	8-719-033-86	DIODE CL-170D-CD-T	
D144	8-719-033-86	DIODE CL-170D-CD-T	
D145	8-719-033-86	DIODE CL-170D-CD-T	
D147	8-719-033-86	DIODE CL-170D-CD-T	
D148	8-719-033-86	DIODE CL-170D-CD-T	
D149	8-719-404-49	DIODE MA111	
D150	8-719-158-15	ZENER DIODE RD5.6SB	
D151	8-719-158-15	ZENER DIODE RD5.6SB	
D152	8-719-158-15	ZENER DIODE RD5.6SB	
D153	8-719-158-15	ZENER DIODE RD5.6SB	
D154	8-719-158-15	ZENER DIODE RD5.6SB	
D155	8-719-158-15	ZENER DIODE RD5.6SB	
D156	8-719-158-15	ZENER DIODE RD5.6SB	
D157	8-719-158-15	ZENER DIODE RD5.6SB	
D158	8-719-158-15	ZENER DIODE RD5.6SB	
D159	8-719-158-15	ZENER DIODE RD5.6SB	
D160	8-719-158-15	ZENER DIODE RD5.6SB	
D161	8-719-158-15	ZENER DIODE RD5.6SB	
D162	8-719-158-15	ZENER DIODE RD5.6SB	
D163	8-719-158-15	ZENER DIODE RD5.6SB	
D164	8-719-158-15	ZENER DIODE RD5.6SB	
D165	8-719-158-15	ZENER DIODE RD5.6SB	
D166	8-719-158-15	ZENER DIODE RD5.6SB	
D167	8-719-158-15	ZENER DIODE RD5.6SB	
D168	8-719-158-15	ZENER DIODE RD5.6SB	
D169	8-719-033-86	DIODE CL-170D-CD-T	
D170	8-719-404-49	DIODE MA111	
D171	8-719-033-86	DIODE CL-170D-CD-T	
		<IC>	
IC102	8-759-467-84	IC MC68HC05P6SC442119B	
IC103	8-759-342-19	IC NJU3716M-T2	
IC104	8-759-342-19	IC NJU3716M-T2	
IC105	8-748-035-08	RAY CATCHER ELEMENT SBX8035-H	

H1 H2

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<COIL>			
L101	1-408-785-21	INDUCTOR CHIP	47UH		
		<TRANSISTOR>			
Q101	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q102	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q103	8-729-027-46	TRANSISTOR DTC114YKA-T146			
		<RESISTOR>			
R101	1-216-017-91	RES,CHIP	47	5%	1/10W
R102	1-216-017-91	RES,CHIP	47	5%	1/10W
R103	1-216-017-91	RES,CHIP	47	5%	1/10W
R104	1-216-017-91	RES,CHIP	47	5%	1/10W
R105	1-216-017-91	RES,CHIP	47	5%	1/10W
R106	1-216-049-91	RES,CHIP	1K	5%	1/10W
R107	1-216-049-91	RES,CHIP	1K	5%	1/10W
R108	1-216-049-91	RES,CHIP	1K	5%	1/10W
R109	1-216-049-91	RES,CHIP	1K	5%	1/10W
R110	1-216-049-91	RES,CHIP	1K	5%	1/10W
R112	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R113	1-216-049-91	RES,CHIP	1K	5%	1/10W
R114	1-216-049-91	RES,CHIP	1K	5%	1/10W
R115	1-216-025-91	RES,CHIP	100	5%	1/10W
R117	1-216-073-00	RES,CHIP	10K	5%	1/10W
R118	1-216-133-00	RES,CHIP	3.3M	5%	1/10W
R119	1-216-133-00	RES,CHIP	3.3M	5%	1/10W
R120	1-216-133-00	RES,CHIP	3.3M	5%	1/10W
R121	1-216-089-91	RES,CHIP	47K	5%	1/10W
R122	1-216-089-91	RES,CHIP	47K	5%	1/10W
R123	1-216-033-00	RES,CHIP	220	5%	1/10W
R124	1-216-033-00	RES,CHIP	220	5%	1/10W
R125	1-216-033-00	RES,CHIP	220	5%	1/10W
R126	1-216-033-00	RES,CHIP	220	5%	1/10W
R127	1-216-033-00	RES,CHIP	220	5%	1/10W
R128	1-216-033-00	RES,CHIP	220	5%	1/10W
R129	1-216-033-00	RES,CHIP	220	5%	1/10W
R130	1-216-033-00	RES,CHIP	220	5%	1/10W
R131	1-216-033-00	RES,CHIP	220	5%	1/10W
R132	1-216-033-00	RES,CHIP	220	5%	1/10W
R133	1-216-033-00	RES,CHIP	220	5%	1/10W
R134	1-216-033-00	RES,CHIP	220	5%	1/10W
R135	1-216-033-00	RES,CHIP	220	5%	1/10W
R136	1-216-033-00	RES,CHIP	220	5%	1/10W
R138	1-216-033-00	RES,CHIP	220	5%	1/10W
R139	1-216-041-00	RES,CHIP	470	5%	1/10W
R140	1-216-041-00	RES,CHIP	470	5%	1/10W
R141	1-216-041-00	RES,CHIP	470	5%	1/10W
R143	1-216-041-00	RES,CHIP	470	5%	1/10W
R144	1-216-041-00	RES,CHIP	470	5%	1/10W
R145	1-216-049-91	RES,CHIP	1K	5%	1/10W
R146	1-216-049-91	RES,CHIP	1K	5%	1/10W
R147	1-216-049-91	RES,CHIP	1K	5%	1/10W
R148	1-216-049-91	RES,CHIP	1K	5%	1/10W
R149	1-216-049-91	RES,CHIP	1K	5%	1/10W
R150	1-216-049-91	RES,CHIP	1K	5%	1/10W
R151	1-216-025-91	RES,CHIP	100	5%	1/10W
R153	1-216-033-00	RES,CHIP	220	5%	1/10W
R154	1-216-033-00	RES,CHIP	220	5%	1/10W
R155	1-216-025-91	RES,CHIP	100	5%	1/10W
R156	1-216-025-91	RES,CHIP	100	5%	1/10W
R157	1-216-025-91	RES,CHIP	100	5%	1/10W
R158	1-216-025-91	RES,CHIP	100	5%	1/10W
R159	1-216-025-91	RES,CHIP	100	5%	1/10W
R160	1-216-025-91	RES,CHIP	100	5%	1/10W
R161	1-216-025-91	RES,CHIP	100	5%	1/10W
R162	1-216-025-91	RES,CHIP	100	5%	1/10W
R163	1-216-033-00	RES,CHIP	220	5%	1/10W
		<SWITCH>			
S101	1-762-357-11	SWITCH (PWR)			
S102	1-762-357-11	SWITCH (DSP)			
S103	1-762-357-11	SWITCH (TST)			
S104	1-762-357-11	SWITCH (LD)			
S105	1-762-357-11	SWITCH (OUT)			
S106	1-570-724-11	SWITCH, SLIDE (TV/PJ/OFF)			
		<CRYSTAL>			
X101	1-567-192-11	OSCILLATOR, CERAMIC			

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H2 BOARD, COMPLETE
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*	4-337-475-00	HOLDER (D), LED			
		<CAPACITOR>			
C201	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
		<CONNECTOR>			
CN203	1-774-198-11	CONNECTOR, FPC (ZIF) 10P			
		<DIODE>			
D201	8-719-404-49	DIODE MA111			
D202	8-719-404-49	DIODE MA111			
D203	8-719-404-49	DIODE MA111			
D204	8-719-404-49	DIODE MA111			
D205	8-719-404-49	DIODE MA111			
D206	8-719-404-49	DIODE MA111			
D208	8-719-404-49	DIODE MA111			
D209	8-719-404-49	DIODE MA111			
D210	8-719-404-49	DIODE MA111			
D211	8-719-404-49	DIODE MA111			

REF.NO.	PART NO.	DESCRIPTION	REMARK
D212	8-719-404-49	DIODE MA111	
D213	8-719-158-15	ZENER DIODE RD5.6SB	
D214	8-719-158-15	ZENER DIODE RD5.6SB	
D215	8-719-158-15	ZENER DIODE RD5.6SB	
D216	8-719-158-15	ZENER DIODE RD5.6SB	
D221	8-719-033-86	DIODE CL-170D-CD-T	
D223	8-719-033-86	DIODE CL-170D-CD-T	
D224	8-719-033-86	DIODE CL-170D-CD-T	
D226	8-719-042-48	DIODE SLR-33DC3F	
D227	8-719-042-48	DIODE SLR-33DC3F	
D228	8-719-042-48	DIODE SLR-33DC3F	
D229	8-719-042-48	DIODE SLR-33DC3F	
D230	8-719-042-48	DIODE SLR-33DC3F	
D231	8-719-042-48	DIODE SLR-33DC3F	
D238	8-719-158-15	ZENER DIODE RD5.6SB	
D239	8-719-158-15	ZENER DIODE RD5.6SB	
D240	8-719-158-15	ZENER DIODE RD5.6SB	
D241	8-719-158-15	ZENER DIODE RD5.6SB	
D242	8-719-158-15	ZENER DIODE RD5.6SB	
D243	8-719-158-15	ZENER DIODE RD5.6SB	
		<TRANSISTOR>	
Q201	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q202	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q203	8-729-027-46	TRANSISTOR DTC114YKA-T146	
		<RESISTOR>	
R201	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R202	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R203	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R204	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R205	1-216-041-00	RES,CHIP 470 5% 1/10W	
R207	1-216-041-00	RES,CHIP 470 5% 1/10W	
R208	1-216-041-00	RES,CHIP 470 5% 1/10W	
R209	1-216-041-00	RES,CHIP 470 5% 1/10W	
R210	1-216-041-00	RES,CHIP 470 5% 1/10W	
R211	1-216-041-00	RES,CHIP 470 5% 1/10W	
R212	1-216-033-00	RES,CHIP 220 5% 1/10W	
R213	1-216-033-00	RES,CHIP 220 5% 1/10W	
R214	1-216-033-00	RES,CHIP 220 5% 1/10W	
R215	1-216-033-00	RES,CHIP 220 5% 1/10W	
R216	1-216-033-00	RES,CHIP 220 5% 1/10W	
R217	1-216-033-00	RES,CHIP 220 5% 1/10W	
		<SWITCH>	
S201	1-762-357-11	SWITCH (CL+)	
S202	1-762-357-11	SWITCH (CL–)	
S203	1-762-357-11	SWITCH (HU+)	
S204	1-762-357-11	SWITCH (HU–)	
S205	1-762-357-11	SWITCH (PC+)	
S206	1-762-357-11	SWITCH (PC–)	
S208	1-762-357-11	SWITCH (SHP)	
S209	1-762-357-11	SWITCH (STL)	
S210	1-762-357-11	SWITCH (VD1)	
S211	1-762-357-11	SWITCH (VD2)	
S212	1-762-357-11	SWITCH (VD3)	

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K2 BOARD, COMPLETE
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<CAPACITOR>

C801	1-124-589-11	ELECT	47MF	20%	16V
C802	1-124-589-11	ELECT	47MF	20%	16V
C803	1-124-589-11	ELECT	47MF	20%	16V
C804	1-124-589-11	ELECT	47MF	20%	16V
C805	1-124-589-11	ELECT	47MF	20%	16V
C806	1-124-589-11	ELECT	47MF	20%	16V
C808	1-124-589-11	ELECT	47MF	20%	16V
C810	1-124-589-11	ELECT	47MF	20%	16V
C811	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C812	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C813	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C814	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C815	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C816	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C817	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C818	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C819	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C821	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C822	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C823	1-124-589-11	ELECT	47MF	20%	16V
C824	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C825	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C826	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C827	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C828	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C829	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C831	1-124-589-11	ELECT	47MF	20%	16V
C832	1-124-589-11	ELECT	47MF	20%	16V
C833	1-124-589-11	ELECT	47MF	20%	16V
C836	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C837	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C838	1-124-589-11	ELECT	47MF	20%	16V
C839	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C840	1-124-589-11	ELECT	47MF	20%	16V
C841	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C842	1-124-589-11	ELECT	47MF	20%	16V
C844	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C845	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C846	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C847	1-126-157-11	ELECT	10MF	20%	16V
C848	1-104-396-11	ELECT	10MF	20%	16V
C849	1-104-396-11	ELECT	10MF	20%	16V
C850	1-104-396-11	ELECT	10MF	20%	16V
C851	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

K2

REF.NO.	PART NO.	DESCRIPTION		REMARK
C852	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	
		<CONNECTOR>		
CN801	1-562-748-11	HOUSING, CONNECTOR 15P		
CN802	1-562-748-11	HOUSING, CONNECTOR 15P		
CN803	1-562-748-11	HOUSING, CONNECTOR 15P		
CN812	1-774-939-11	SOCKET, DIN (4P)		
		<DIODE>		
D802	8-719-800-76	DIODE 1SS226		
D804	8-719-800-76	DIODE 1SS226		
D806	8-719-800-76	DIODE 1SS226		
D807	8-719-800-76	DIODE 1SS226		
D808	8-719-800-76	DIODE 1SS226		
D809	8-719-800-76	DIODE 1SS226		
D810	8-719-800-76	DIODE 1SS226		
D811	8-719-800-76	DIODE 1SS226		
D812	8-719-800-76	DIODE 1SS226		
D813	8-719-976-96	ZENER DIODE DTZ4.7C		
D814	8-719-976-96	ZENER DIODE DTZ4.7C		
D815	8-719-976-96	ZENER DIODE DTZ4.7C		
D816	8-719-976-96	ZENER DIODE DTZ4.7C		
D817	8-719-976-96	ZENER DIODE DTZ4.7C		
D818	8-719-976-96	ZENER DIODE DTZ4.7C		
D819	8-719-976-96	ZENER DIODE DTZ4.7C		
D820	8-719-976-96	ZENER DIODE DTZ4.7C		
		<IC>		
IC801	8-759-358-46	IC MM1114XFBE		
IC802	8-759-358-46	IC MM1114XFBE		
IC803	8-759-446-66	IC MM1113XFBE		
IC804	8-759-387-75	IC TC7W00F(TE12R)		
IC805	8-759-387-75	IC TC7W00F(TE12R)		
IC806	8-759-242-68	IC TC7W32F		
IC807	8-759-242-74	IC TC7W04F		
IC808	8-759-360-07	IC BA7657F-E2		
IC809	8-759-186-51	IC TC74VHC157F		
IC810	8-759-242-64	IC TC4W53F		
IC811	8-759-242-64	IC TC4W53F		
		<TRANSISTOR>		
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
Q802	8-729-120-28	TRANSISTOR 2SC1623-L5L6		
		<RESISTOR>		
R801	1-216-624-11	METAL CHIP	75	0.50%1/10W
R803	1-216-624-11	METAL CHIP	75	0.50%1/10W
R804	1-216-624-11	METAL CHIP	75	0.50%1/10W
R810	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R813	1-216-624-11	METAL CHIP	75	0.50%1/10W
R815	1-216-624-11	METAL CHIP	75	0.50%1/10W
R817	1-216-624-11	METAL CHIP	75	0.50%1/10W
R818	1-216-053-00	RES,CHIP	1.5K	5% 1/10W
R819	1-216-053-00	RES,CHIP	1.5K	5% 1/10W
R820	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R821	1-216-624-11	METAL CHIP	75	0.50%1/10W
R822	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R823	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R824	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R825	1-216-624-11	METAL CHIP	75	0.50%1/10W
R826	1-216-624-11	METAL CHIP	75	0.50%1/10W
R827	1-216-624-11	METAL CHIP	75	0.50%1/10W
R828	1-216-121-91	RES,CHIP	1M	5% 1/10W
R829	1-216-121-91	RES,CHIP	1M	5% 1/10W
R830	1-216-627-11	METAL CHIP	100	0.50%1/10W
R831	1-216-121-91	RES,CHIP	1M	5% 1/10W
R832	1-216-049-91	“RES,CHIP”	1K	5% 1/10W
R833	1-216-025-91	“RES,CHIP”	100	5% 1/10W
R834	1-216-624-11	METAL CHIP	75	0.50%1/10W
R835	1-216-624-11	METAL CHIP	75	0.50%1/10W
R836	1-216-624-11	METAL CHIP	75	0.50%1/10W
R837	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R838	1-216-624-11	METAL CHIP	75	0.50%1/10W
R839	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R840	1-216-661-11	METAL CHIP	2.7K	0.50%1/10W
R841	1-216-661-11	METAL CHIP	2.7K	0.50%1/10W
R842	1-216-661-11	METAL CHIP	2.7K	0.50%1/10W
R843	1-216-661-11	METAL CHIP	2.7K	0.50%1/10W
R844	1-216-049-91	RES,CHIP	1K	5% 1/10W
R845	1-216-049-91	RES,CHIP	1K	5% 1/10W
R846	1-216-049-91	RES,CHIP	1K	5% 1/10W
R847	1-216-049-91	RES,CHIP	1K	5% 1/10W
R848	1-216-049-91	RES,CHIP	1K	5% 1/10W
R849	1-216-049-91	RES,CHIP	1K	5% 1/10W
		<SWITCH>		
S801	1-762-669-11	SWITCH, SLIDE (75 TERM – OPEN)		
S802	1-692-467-11	SWITCH, SLIDE (RGB – Y/B/-Y/R-Y)		
S803	1-692-467-11	SWITCH, SLIDE (AUTO – SOG)		
S804	1-692-467-11	SWITCH, SLIDE (SEP – COMP)		
S805	1-692-467-11	SWITCH, SLIDE (RGB – Y/B/-Y/R-Y)		
S806	1-762-669-11	SWITCH, SLIDE (75 TERM – OPEN)		
S807	1-692-467-11	SWITCH, SLIDE (NORMAL – COMPOSIT VIDEO)		
S808	1-692-467-11	SWITCH, SLIDE (RGB – Y/B/-Y/R-Y)		
		<TERMINAL BOARD>		
TB801	1-694-093-21	TERMINAL BOARD ASSY, I/O		
TB802	1-694-094-11	TERMINAL BOARD ASSY, I/O		

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REF.NO.	PART NO.	DESCRIPTION	REMARK
		K1 BOARD, COMPLETE	
		**********	
		<CAPACITOR>	
C701	1-126-157-11	ELECT 10MF 20% 16V	
C702	1-126-157-11	ELECT 10MF 20% 16V	
C703	1-126-157-11	ELECT 10MF 20% 16V	
C704	1-126-157-11	ELECT 10MF 20% 16V	
C705	1-126-157-11	ELECT 10MF 20% 16V	
C706	1-126-157-11	ELECT 10MF 20% 16V	
C707	1-124-589-11	ELECT 47MF 20% 16V	
C708	1-124-589-11	ELECT 47MF 20% 16V	
C709	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C710	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C711	1-124-248-00	ELECT 22MF 20% 35V	
C713	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C714	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C715	1-124-589-11	ELECT 47MF 20% 16V	
C716	1-124-589-11	ELECT 47MF 20% 16V	
C717	1-124-584-00	ELECT 100MF 20% 10V	
		<CONNECTOR>	
CN701*	1-764-093-21	PIN, CONNECTOR (PC BOARD) 8P	
		<DIODE>	
D701	8-719-800-76	DIODE 1SS226	
D702	8-719-800-76	DIODE 1SS226	
D703	8-719-800-76	DIODE 1SS226	
D704	8-719-800-76	DIODE 1SS226	
D705	8-719-800-76	DIODE 1SS226	
D706	8-719-800-76	DIODE 1SS226	
D707	8-719-158-15	ZENER DIODE RD5.6SB	
D708	8-719-158-15	ZENER DIODE RD5.6SB	
D709	8-719-404-49	DIODE MA111	
		<FERRITE BEAD>	
FB201	1-414-234-22	INDUCTOR CHIP	
FB202	1-414-234-22	INDUCTOR CHIP	
FB203	1-414-234-22	INDUCTOR CHIP	
FB204	1-414-234-22	INDUCTOR CHIP	
FB205	1-414-234-22	INDUCTOR CHIP	
FB206	1-414-234-22	INDUCTOR CHIP	
		<IC>	
IC2101	8-759-446-66	IC MM1113XFBE	
IC2102	8-759-446-66	IC MM1113XFBE	
		<JACK>	
J701	1-778-014-11	JACK BLOCK, PIN 2P	
J702	1-778-014-11	JACK BLOCK, PIN 2P	
J703	1-778-014-11	JACK BLOCK, PIN 2P	
J704	1-778-014-11	JACK BLOCK, PIN 2P	
J705	1-507-800-00	JACK	
J706	1-507-800-00	JACK	
		<TRANSISTOR>	
Q702	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q703	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q704	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q705	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q710	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q711	8-729-027-46	TRANSISTOR DTC114YKA-T146	
		<RESISTOR>	
R701	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R702	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R703	1-216-113-00	RES,CHIP 470K 5% 1/10W	
R704	1-216-113-00	RES,CHIP 470K 5% 1/10W	
R705	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R706	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R707	1-216-113-00	RES,CHIP 470K 5% 1/10W	
R708	1-216-113-00	RES,CHIP 470K 5% 1/10W	
R709	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R710	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R711	1-216-113-00	RES,CHIP 470K 5% 1/10W	
R712	1-216-113-00	RES,CHIP 470K 5% 1/10W	
R713	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R714	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R715	1-216-113-00	RES,CHIP 470K 5% 1/10W	
R716	1-216-113-00	RES,CHIP 470K 5% 1/10W	
R719	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R720	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R721	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R722	1-216-025-91	RES,CHIP 100 5% 1/10W	
R723	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R724	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R725	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R726	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R727	1-216-081-00	RES,CHIP 22K 5% 1/10W	
R728	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R729	1-216-073-00	RES,CHIP 10K 5% 1/10W	

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J1 J2

REF.NO.	PART NO.	DESCRIPTION			REMARK
		J1 BOARD, COMPLETE **********			
		<CONNECTOR>			
CN301	1-774-198-11	CONNECTOR, FPC (ZIF) 10P			
		<DIODE>			
D301	8-719-404-49	DIODE MA111			
D302	8-719-404-49	DIODE MA111			
D303	8-719-404-49	DIODE MA111			
D304	8-719-404-49	DIODE MA111			
D305	8-719-404-49	DIODE MA111			
D306	8-719-404-49	DIODE MA111			
		<RESISTOR>			
R301	1-216-089-91	RES,CHIP	47K	5%	1/10W
R302	1-216-089-91	RES,CHIP	47K	5%	1/10W
		<SWITCH>			
S301	1-572-921-11	SWITCH, KEY BOARD (HC+)			
S302	1-572-921-11	SWITCH, KEY BOARD (HC–)			
S303	1-572-921-11	SWITCH, KEY BOARD (VC+)			
S304	1-572-921-11	SWITCH, KEY BOARD (VC–)			
S305	1-572-921-11	SWITCH, KEY BOARD (MENU)			
S306	1-572-921-11	SWITCH, KEY BOARD (ENT)			
		J2 BOARD, COMPLETE **********			
		<CONNECTOR>			
CN401	1-774-198-11	CONNECTOR, FPC (ZIF) 10P			
		<DIODE>			
D401	8-719-404-49	DIODE MA111			
D402	8-719-404-49	DIODE MA111			
D403	8-719-404-49	DIODE MA111			
D404	8-719-404-49	DIODE MA111			
D405	8-719-404-49	DIODE MA111			
D406	8-719-404-49	DIODE MA111			
		<RESISTOR>			
R401	1-216-089-91	RES,CHIP	47K	5%	1/10W
R402	1-216-089-91	RES,CHIP	47K	5%	1/10W
		<SWITCH>			
S401	1-572-921-11	SWITCH, KEY BOARD (HS+)			
S402	1-572-921-11	SWITCH, KEY BOARD (HS–)			
S403	1-572-921-11	SWITCH, KEY BOARD (VS+)			
S404	1-572-921-11	SWITCH, KEY BOARD (VS–)			
S405	1-572-921-11	SWITCH, KEY BOARD (ZM+)			
S406	1-572-921-11	SWITCH, KEY BOARD (ZM–)			

9-978-635-11 98LL05123-1

Sony Corporation
Display Company
Computer Display Dept.

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